

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 26th Year
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New Hampshire Antenna Bill Signed; Wisconsin Action to Codify PRB-1 Waits

New Hampshire Governor Stephen Merrill has signed into law a bill protecting amateurs' rights to antennas.

The bill, HB 379, earlier passed both the state's House and Senate unanimously and was signed by the governor on June 5. It was originally written to include slightly stronger language regarding antennas than that contained in PRB-1; the language was then fine-tuned at the suggestion of members of the legislature who are "friendly to Amateur interests," according to ARRL New Hampshire Section Manager Al Shuman, N1FIK.

The bill was filed on the coattails of New Hampshire's HB 1380, passed in 1994, which provides protection from taxing Amateur Radio towers as real property. HB 379 reads:

"No city, town, or county in which there are located unincorporated towns or unorganized places shall adopt or amend a zoning ordinance or regulation with respect to antennas used exclusively in the amateur radio services that fail to conform to the limited federal preemption entitled Ama-

teur Radio Preemption, 101 FCC 2nd 952 (1985) issued by the Federal Communications Commission."

In addition to Shuman, other New Hampshire amateurs who helped in this victory included Rep Ralph Rosen, W1-HSB; Rep Tom Kirby, W1EJ; Rep Rudy Adler, W1GUA; Jack Sheehy, WA1ALM, and Cal Calvito, WA1WOK. Rep Rosen wrote the bill.

In Wisconsin, writing and introduction of a similar bill is on hold until after the state budget is ironed out. Rep. Ben Brancel's office tells Badger State Smoke Signals that much pending legislation is waiting for attention, but that that the budget is the high-priority bill until the process is complete. Rep. Brancel (R-Endeavor) is Assembly Chairman of the Assembly-Senate Joint Finance Committee. Following budget passage, the PRB-1 bill is expected to be introduced. The exact time frame for its introduction is not known.

- ARRL Bulletin ARLB057, BSSS staff

League Responds to FCC RFI Proposal

The ARRL has commented on an FCC proposal to deregulate the equipment and testing requirements for personal computers, peripherals, and individual components (in ET Docket No. 95-19).

The FCC proposal, made in February, would not change the substantive regulations governing unintentional emissions from Class B digital devices, and there is no proposal in this proceeding to increase the amount of permitted RF energy from personal computers, peripherals or their components.

"Theoretically," the League said, "radio amateurs will not be affected by this proceeding, notwithstanding the fact that the Commission's certification procedure is specifically intended to ensure that unintentional radiator devices not cause interference to radio services such as broadcasting, aeronautical and maritime communications, and the Amateur Service."

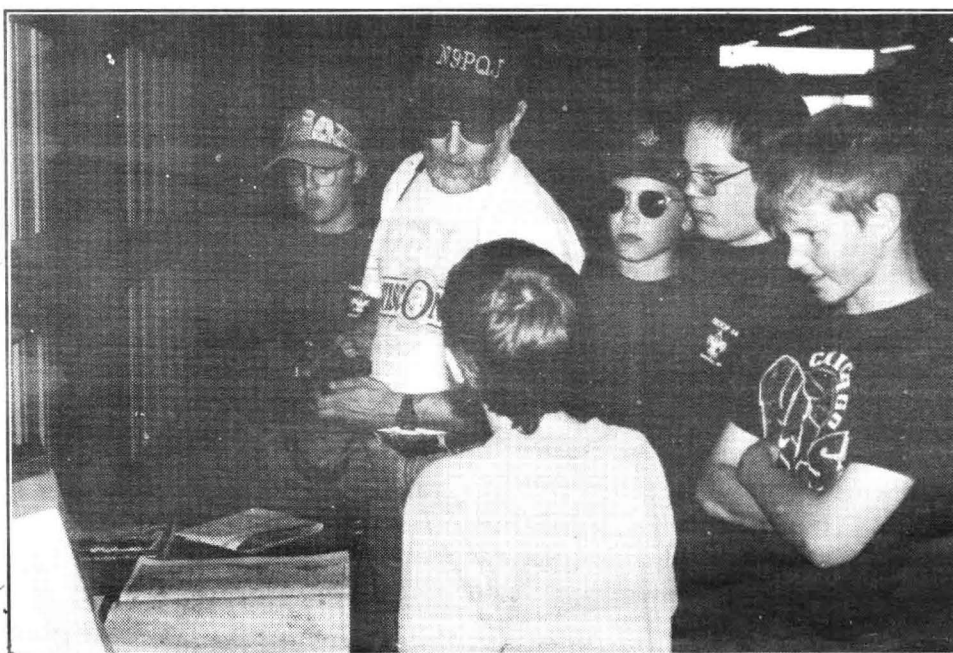
But the League did express concern that the FCC was proposing to give up oversight that in the past has kept interference from Class B computing devices to radio receivers within "practicable limits." This is a special consideration, the League said, now that many radio amateurs have PCs as permanent parts of their stations. The League said it was important that the FCC reaffirm its intention to increase enforcement against noncompliant devices.

The League said it is the concern of the amateur community that new testing procedures could allow on the market more devices that either are not tested, do not meet RF emission requirements, or both.

The ARRL said its greatest fear is that there will not be significant enforcement of the new rules, nor any effort to evaluate the level of compliance on the part of the manufacturers, and that there will be no disincentive to simply market noncompliant products. Since the Commission's field offices today seldom respond to complaints of interference to home electronics products, the only time that such issues can be adequately addressed is at the time an unlicensed device is marketed for sale to the public, the League said.

Finally, the ARRL said that since Class B PCs can malfunction due to close-by RF fields, that every PC's Declaration of Conformity should identify where the owner can go for assistance in getting the device to function properly in the presence of RF.

Showing off Ham Radio at Scouting Outing



Tom Harrison, N9PQJ, Reedsburg, a member of the Yellow Thunder Amateur Radio Club, is shown demonstrating a hand-held radio with tons of bells and whistles to an interested group of youngsters at the Boy Scouts' Heritage Days, held every May at the usually cold and soggy Sauk County Fairgrounds in Baraboo. The weather for the 1995 version of the event was abberational: sunny and warm. The computer at left was tracking a balloon flight.

- BSSS staff photo

FCC is now on the Internet

The FCC has instituted an FCC home-page (<http://www.fcc.gov>) as an entry point to the Commission's on-line resources.

The page features selectable buttons to go directly to high interest items such as

the Daily Digest, the Commission Agenda, Auctions, and current rule makings.

There also is a button called "Getting Information," providing a tour of what information is available and where it can be found on the site. It provides links to available on-line documents. There also is a link to the FCC telephone directory.

A general mailbox for electronic mail to the FCC is: fccinfo@fcc.gov.

- ARRL Bulletin ARLB058, 6/8/95

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EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SUNDAY, JULY 2, 1995. Northwoods Amateur Radio Club annual Hamfest, Located in Rhinelander, WI at the Taj Mahall, Head north on Stevens St., to Pueblo Dr., turn left (by Nissan dealer). Contact Northwoods ARC., 5286 Sycamore ST., Rhinelander, WI 54501. (715) 369-5194.

SATURDAY, JULY 8, 1995. South Milwaukee Swapfest, American Legion Park, Shepard Avenue, Oak Creek, WI. Contact SMARC, PO box 102, South Milwaukee, WI 53172. (414) 762-3235.

SATURDAY, JULY 22, 1995 Eau Claire ARC Swapfest, Chippewa Falls WI. Contact: ECARC, PO Box 1867, Eau Claire, WI 54701, or Carol Ceraso, (715) 723-9205 or Liz Searing, (715) 834-1303.

SUNDAY, JULY 23, 1995. Fox River Radio League Hamfest, Sugar Grove, IL.

SUNDAY, JULY 30, 1994. Racine Hamfest, South Hills Country Club, I-94, East Frontage Road, Between Highway 20 and Highway K, Racine, WI. Contact: Racine Megacycle Club, PO Box 3, Racine, WI 53401-0003.

SUNDAY, AUGUST 6, 1995. The Marshfield Area Amateur Radio Society will be holding their 4th annual picnic. Gather around 11:00 a.m. Potluck & Swapfest, in Wildwood Park, Marshfield, WI. Talk in on 147.180. All welcome. Contact: Guy A Boucher, KF9XX, 107 West Third Street, Marshfield, WI. 54449. (715) 384-4323. Packett:KF9XX@W9IHW.WI.USA.NA

SATURDAY, AUGUST 12, 1995. Northwoods Hamfest, at Sugar Camp town hall near Rhinelander, WI. Contact Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 26, 1995, 8:00 am - 3:00 pm. Hamfest-Computer Expo-Antique radio show, Omni Center Onlaska, Wisconsin. Sponsored by the Riverland Amateur Radio Club. 2-1/2 Miles North of La Crosse, WI. on Highway 35. Friday unloading and setup begins at 8PM and will shut down and lock up at 12 midnight. Saturday unloading 6AM - 8AM. Admission: \$3.00. Fleamarket Tables: \$7.00 + Admission Fee. Fleamarket

AC Power \$12.00. Tailgating Fee: \$7.00 + Admission Fee. Free Parking and FREE Coffee, Commercial Vendors, Hourly Drawings. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI. (608) 784-9176.

SATURDAY, AUGUST 26, 1994. Riverland Hamfest-Computer Expo and Antique radio show. La Crosse, WI. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176.

SUNDAY, AUGUST 27, 1995. Woodstock Hamfest, McHenry County Fairgrounds, Woodstock, IL. Contact: TCRG, PO Box 3107, Skokie, IL, 60076-6107.

SATURDAY, SEPTEMBER 2, 1995. It's true! Mighty little Hayward in northern Wisconsin is holding its first Hamfest on the LABOR DAY week-end from 8AM to 2PM. Free Coffee. Pretty good food. Tables \$10. Tickets \$5.00 Write John Kruk N9UPC PO Box 13160 Hayward, WI 54843 or call 715-634-4940. We have rented the Armory and they do NOT allow tail-gating. Sorry! All sales inside ONLY.

SUNDAY, SEPTEMBER 10, 1995. Iowa Radiofest, Dubuque Hamfest & Computer Expo., Tri-State Blind Society, 3333 Ashbury Road, Dubuque, IA. Contact: Larry Pensel, WUOST, 619 Kaufmann Ave., Dubuque, IA 52001, (319) 588-1085, Loren Heber, NOYHZ, 9479 Lauderville Road, Dubuque, IA 52003. (319) 583-5755, or J. Ehlers, NONLU, (319) 583-1016.

SUNDAY, OCTOBER 15, 1995. Kettle Moraine Radio Amateurs Swapfest, Waukesha County Expo Center. Contact: KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411.

SATURDAY, NOVEMBER 4, 1995. 11th annual Friendlyfest 8:00 a.m. to 1:00 p.m. at the Waukesha County Expo Center, Waukesha, WI. Contact Milwaukee Repeater Club, Inc., PO Box 2123, Milwaukee, WI 53201.

SUNDAY, NOVEMBER 4, 1995. Fox Cities Hamfest, Starlite Club, Hwy 55 North of Kaukauna. Contact: Dan Vanevenhoven, N9LVS, 2410 E Newberry Ct., Appleton, WI 54915. (414) 739-5101.

SUNDAY, JANUARY 14, 1996. 24th Annual Midwinter Swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI. 53201.

TUESDAY, FEBRUARY 27, 1996. Red Cedar Repeater Association, Inc., American Legion Post 53, 634 Water St., Eau Claire, WI. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374.

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the January 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

M & M AMATEUR RADIO CLUB

General meeting held second Thursday each month at 7:00 p.m. at Menominee BAMC 4th floor, Tenth Ave., Menominee, MI 49858.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed. Held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin ST., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 10th and Franklin Streets.

WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. Emergency Government Office, Wood County Court House. Talk-in on 146.79 for entry into the building. Net on Sundays at 8:00 p.m. on 146.79.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

July 8, 1995	Oak Creek, WI SMARC Hamfest
July 8, 1995	Redgranite, WI
July 15, 1995	Mukwonago
July 19, 1995	West Allis, WI (MRAC)
July 15, 1995	Loves Park, IL
July 21, 1995	Eau Claire, WI
July 22, 1995	Eau Claire, WI
July 29, 1995	Eau Claire Hamfest
July 29, 1995	Wauwatosa, WI (MRAC)
July 30, 1995	Tomahawk, WI
	Racine, WI
	Racine Hamfest
August 5, 1995	River Falls, WI
August 12, 1995	Marshfield, WI
	Northwoods Hamfest
August 12, 1995	Redgranite, WI
August 12, 1995	Mukwonago
August 16, 1995	West Allis, WI (MRAC)
August 19, 1995	Loves Park, IL
August 26, 1995	Wauwatosa, WI (MRAC)
August 26, 1995	Tomahawk, WI
September 2, 1995	Oak Creek, WI (SWAT/MRAC)
September 2, 1995	Racine, WI
September 9, 1995	Madison, WI
September 9, 1995	Redgranite, WI
September 10, 1995	Dubuque, IA
	Dubuque Hamfest
September 20, 1995	West Allis, WI (MRAC)
September 16, 1995	Loves Park, IL
September 30, 1995	Wauwatosa, WI (MRAC)
September 30, 1995	Tomahawk, WI

Badger State Smoke Signals

Amateur Radio Education and Information

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Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.** This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901. *Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

October 7, 1995 Racine, WI
 October 7, 1995 River Falls, WI
 October 7, 1995 Oak Creek, WI (SWAT/MRAC)
 October 14, 1995 Madison, WI
 October 14, 1995 Redgranite, WI
 October 18, 1995 West Allis, WI (MRAC)
 October 21, 1995 Loves Park, IL
 October 28, 1995 Wauwatosa, WI (MRAC)
 October 28, 1995 Tomahawk, WI
 November 4, 1995 Racine, WI
 November 4, 1995 Oak Creek, WI (SWAT/MRAC)
 November 4, 1995 Menomonee, WI
 November 11, 1995 Marshfield, WI
 November 11, 1995 Madison, WI
 November 11, 1995 Redgranite, WI
 November 15, 1995 West Allis, WI (MRAC)
 November 18, 1995 Dubuque, IA
 November 18, 1995 Loves Park, IL
 November 25, 1995 Wauwatosa, WI (MRAC)
 December 2, 1995 Oak Creek, WI (SWAT/MRAC)
 December 2, 1995 Racine, WI
 December 2, 1995 River Falls, WI
 December 2, 1995 Stevens Point, WI
 December 9, 1995 Madison, WI
 December 9, 1995 Redgranite, WI
 December 20, 1995 West Allis, WI (MRAC)
 December 16, 1995 Loves Park, IL

Monthly, 1st Sat. Racine, WI
 (except January, July & August)
 Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)
 (except May, June, July & August)
 Monthly, 2nd Sat. Madison, WI
 Monthly, 2nd Sat. Redgranite
 Monthly, 3rd Sat. West Allis, WI (MRAC)
 Monthly, 3rd Sat. Loves Park, IL
 Monthly, Last Sat. Wauwatosa, WI (MRAC)
 (except December)
 Monthly, Last Sat. Tomahawk, WI
 (January thru October only)
 Quarterly Marshfield, WI
 (Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32¢ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) OAK CREEK, WI (SWAT-MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 -blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact: Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such as driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE
 Amateur exams: 1:00 p.m. to 4:00 p.m.
 Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name,

test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.
 Mark Jenks, N29B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

REDGRANITE, WI (W5YI VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River rd., just off Highway 21. Testing begins at 9:00 a.m. Breakfast meeting at 8:00 a.m. at the Curve on Highway 21 prior to testing session. All Amateurs are welcome at the breakfast. Contact Terry Lynn Witt, AA9BA, 9145 Ivy Lane, Berlin, WI 54923.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct. Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Menomonee VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonee, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

FOND DU LAC, WI

Sponsored by the Fond du Lac Amateur Radio Club. From 9:00 a.m. to Noon at the Community United Methodist Church located at 701 Minnesota Ave., in North Fond du Lac, WI. All level tests, walk-ins welcome. Contact: Doug Schultz, N9EZF, (414) 992-3088.

MUKWONAGO

July 15, August 12

The Kettle Moraine Exam Team will be having regular exams from 9:00 a.m. to noon on the Second Saturday of the month at Laflin Lodge in Mukwonago. Park on Highway 83 just south of Highway ES behind Horn Hardware. Testing is in the basement of the

Masonic Lodge. No smoking.

EAU CLAIRE (HAMFEST)

July 21 & July 22, 1995

Friday evening, 7 to 9 p.m. Saturday 9:00 a.m. 1:00 p.m. All Walk-ins. We supply 610 forms.

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central F Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: C Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 520 Or call Carl at 319-557-9149. Talk-ins are on 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at No Suburban District Library, 6340 North Second (Hwy. 251), Loves Park, IL. Contact: Dennis Eksten, W9SS, (815) 877-6768.

MINNESOTA TEST INFORMATION

From The Ground Wave, Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, KOQBE (612) 222-7253

Test Site: St. Luke School

1065 Summit Ave.

St Paul, MN

(Parking & entrance in back)

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)

Contact: Tom Cunningham, N1OH (612) 537-2649

Test Site: Blaine City Hall, Blaine MN

TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Amateur Radio Club (BARC)

Contact: Jerry Jensen, WTOW (612) 888-6187

Test Site: Creekside Community Center

98th & Penn Avenue S

Bloomington, MN

TESTING: Second Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)

Contact: Paul Ramey, WGOG (612) 432-1640 or

Bill Martin, KAOCIR (612) 532-0438

Test Site: Hayes Community Center

14601 Hayes Road

Apple Valley, MN

TESTING: Second Thursday of the month 6:30 p.m.

W5YI

Contact: Dave Ranney, NOAXL (612) 936-9850

Test Site: Eden Prairie Library

479 Eden Prairie Drive

Eden Prairie, MN

TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)

Contact: Dave Harrell, NOIPN (612) 459-8678

Test Site: Cottage Grove fire Station

8641 80th St., S

Cottage Grove, MN

TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by various VEs. However, it is suggested that you confirm time and date BEFORE you make the trip to test site. Occasionally, test my be canceled or date and locations changed. A Phone call could save some grief and a wasted trip.

This section of Badger State Smoke Signals available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.



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FOR SALE: 54 ft. crankup, TH5MK2S 3 element tri band beam, HAM IV rotor, package price \$2359.00. P 54HD \$1800.00, TH5MK2S \$425.00, HAM IV \$275.00. A1 1 Rohn #25 top section \$30.00, 1 Rohn #25 regui section. Jim Burcum, K9LBX, 513 Flint, Onalaska, 54650. (608) 783-1611.

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FOR SALE: Icom IC2GXAT fm transceiver. \$200.00 (414) 481-9145.

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Madison Area RA picnic is July 11 at 6 p.m. at Mendota County Park off county highway M east of county highway Q.

Northwoods Hamfest is August 12 at Sugar Camp town hall near Rhinelander.

On August 13 the Rock River RC will hold its annual club picnic.

The Four Lakes ARC has set up a packet matrix in the radio room at the Red Cross; Club will have annual fox hunt on August 15.

Adams County ARC picnic is August 19 at Friendship Park.

Badger Weather Net picnic is August 20 at 1 p.m. in Shawano.

August 26 is the Riverland Hamfest-Computer Expo and Antique Radio Show in LaCrosse.

August 26 is joint meetings of QCWA chapters 55, 162 and 174 at Robbins in Oshkosh, dinner at noon with program of Russian trip by WA9JMO.

The Tri-County ARC family picnic is August 27.

Exams: August 5 River Falls, August 12 Marshfield, Madison, Mukwonago and Redgranite, August 16 West Allis, August 26 Wauwatosa, Onalaska and Tomahawk.

Activity of the month: Have your club appoint license class committee members. Your club PIO should garner local publicity for classes - contact newspapers, radio, local public access channel on CATV.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q

(Rhinelander area)

RCRA	No	01/61	2330	1830	KA9OMC
------	----	-------	------	------	--------

(Mondays CDT) (Menomonie Area)

Gr. Bay	No	72/12	0145	2045	WB9NRK
---------	----	-------	------	------	--------

(Green Bay Area)

ARES	No	4.65/5.25	0100	2000	
------	----	-----------	------	------	--

(South East/South Central Wisconsin)

RACES	No	3993.5	1300	0800	WA9OAY
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(LSB Sunday)

New coordinated repeaters: 51.25, 147.75, 447.35 Ashland; 222.8 Eau Claire; 449.55 Cleveland; 448.7 Luxembourg; 449.525 Germantown; 144.67, 449.675 New Richmond; 144.73, 449.2 Osseo; 449.525 Holcombe.

If you would like to be a PIO contact me for info and application.

Green Fox ARC officers: pres AA9LY, vp N9GVY, secy KB9WC, treas N9TXS.

Our energetic SEC, WB9SMM, has started a quarterly newsletter called *Boots & Saddles* for Milwaukee and Waukesha ARES. It covers tips, news, suggestions and procedures for emergency communications.

Sorry to report Silent Keys N9CSM, K9JVP, KB9ZF, WB9BDC, W9SYT, K9IKA, WA9PDX, W9GAH and W9SYT.

Thought of the month: *Nothing is as inevitable as a mistake whose time has come.*

Meet Your New Official Observer Coordinator (OOC)

Hello, I'm Dale R. Kubichek, N6JSX/9, your newly appointed OO Coordinator. I'm originally from, and once again in, Manitowoc, WI. I've been a ham for over 23 years and an Advanced Class ham. I also have my FCC Commercial General Radio License with radar endorsement. I'm a past-ARRL Los Angeles Section OOC (1987-1989) that has the largest ham radio population area in all of the USA. I'm a well known "T"ransmitter (jammer) Hunter in Southern California.

Occupationally, I'm a Senior Electronics Test Engineer and Electronics Manufacturing Engineer. I write technical articles for the *Badger State Smoke Signals* and *73 Magazine*.

I see the OO program as one of the single most unique elements of ham radio, in that we are self-policing. We are being allowed to create or kill our own destiny. OO's are armed *only* with peer pressure and common sense to accomplish compliance with Part 97 Rules (and *only* Part 97)! **The OO program is not and will not be a vendetta program to be used by some Hams against others.** It is true that in *extreme* cases I can seek FCC assistance but, as we all know, FCC action is lethargic at best. That doesn't mean I will not try to seek FCC support when I [find] a stubborn derelict who will NOT change his illegal operations. I've been a government law-enforcement agent once, and I know how to compile a case that will stick.

The OO program reacts *only* to written requests for assistance. You may call me and discuss the issues but I do *not* react to telephone calls, *only written complaints!*

When requested, I will try to be a club speaker at your club's meeting. Call me to set up an appointment.

Recently, I was honored to be the program speaker for the Madison Area Repeater Association Club. The two subjects covered were "T" Hunting and the Wisconsin OO Program. I believe in Transmitter Hunting as a fantastic deterrent to repeater problems. The better the local "T" Hunting group is the, less likely the repeater will have problems! Besides, T Hunting is fun - the conquest of the hunt and the skill created is an interesting challenge!

I'm looking for more OO candidates: hams who are at least Technician level, have at least four years as a ham, are mature, level-headed, objective, and willing to *just* listen rather than talk. I know most of my qualification requests are reaching for the stars [grin!], but I need reasonable Hams. I prefer "T" hunting hams, as they obviously possess technical competence in building their equipment, they are energetic looking for the bunny or fox, and they are a more social group of hams that get out and meet people. Please, club officials, I could use your assistance in making recommendations for possible candidates.

REMEMBER: When YOU have a repeater problem it will take time just finding the problem and add the time needed to recruit and train a new willing local OO before any action can be accomplished. *Are you willing to wait (months)?* I cannot and will not go everywhere in Wisconsin to sit and wait for a jammer to operate so I can ID them. No one likes a cop until your house is robbed and then you complain that the cops should have been there to prevent the robbery. If I have enough OOs throughout the state, there will be an implied threat to the bad boys that they better NOT test the illegal waters or they will get zapped (ID'ed) quickly - and if I can't get FCC help, I will put their names out so all will know who is the LID - i.e. peer pressure!

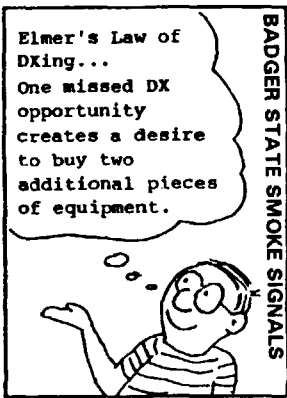
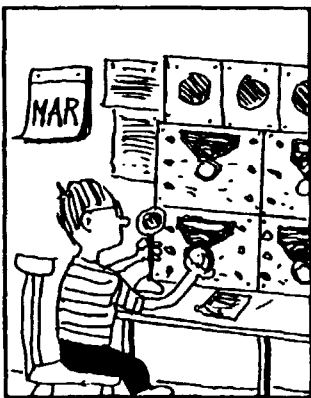
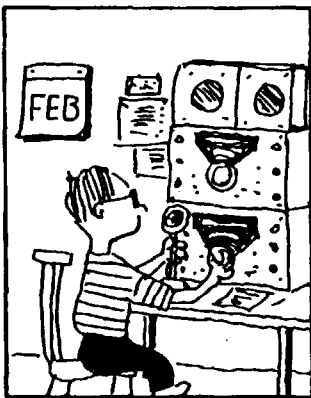
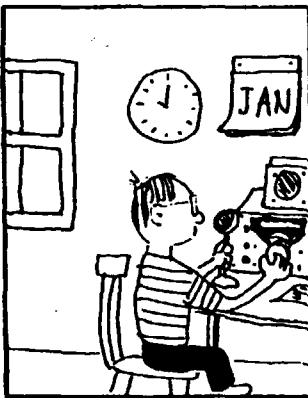
If you have any questions, please feel free to contact me. General questions can be routed via packet, but please no names or call signs as packet is NOT PRIVATE. Thank you and I hope I can be of service to Wisconsin Ham Radio.

73.

Dale "Kuby" Kubichek, N6JSX/9
1305A South 13th Street
Manitowoc, WI 54220
414-684-5237 24 hrs - in person after 6 p.m.
Packet: N6JSX @ NF9R
Compuserve: 75210,2703

ELMER

By Rich Regent, K9GDF



BADGER STATE SMOKE SIGNALS



Ask Elmer

Q. Why did Intel call their new CPU a Pentium™ instead of the 586?

A: Copycat manufacturers were using the 286, 386 and 486 numbers in their computer advertising, since a number can't be registered as a trademark. Intel then decided to call their new 586 chip the

"Pentium"™ and registered it. No more copycats.

Q: How often should I use a floppy drive cleaning disk on my computer?

To avoid wearing the drive out, clean it only when you have a problem that indicates that cleaning is needed.

Q: What is chip creep?

A: The discrete integrated computer chips slowly work their way out of their sockets each time the computer warms up. Simply push the chips back in their sockets every few years or as needed.

Please turn to page 9

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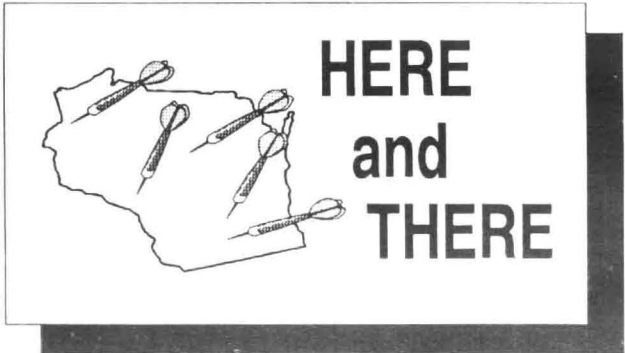
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7 95



W1AW Gets SSTV Donation

A complete, modern slow scan television system has been donated to W1AW.

The system, designed by John Langner, WB2-OSZ, includes his PASOKON TV software, a "frame grabber," a 486 color computer, and a charge coupled device (CCD) camera. His system is described in the cover story in January 1993 QST.

The system, valued at some 2000 dollars, was donated by Norm Creller, W8MPM, who said "I owe my Morse code skills to W1AW code practice and still monitor bulletins from the station. I wanted to do something in return." Creller is a manager at Chrysler Motors in Toledo, Ohio.

The new SSTV equipment is set up for use by visitors to W1AW. They will be able to observe SSTV on the HF bands as well as to send pictures.

- ARRL Bulletin ARLX024, 5/30/95

Correction to West Allis Radio Amateur Club Address

In our listing of the Wisconsin QSO Party results in the June issue, we printed the correct address of the WQP sponsor, the West Allis Radio Amateur Club. But, we had the ZIP code typed as 53221. The correct address and ZIP code is **West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201**. If you wrote to the club and used the incorrect ZIP, your correspondence may not have gotten to the club and you may have to resend your mail. We apologize for our error and any inconvenience it may have caused, and we thank Dave Knaus, WA9POV, for calling it to our attention.

Study Fails to Find EMF-Cancer Link

The Council of the American Physical Society (APS) has issued the results of a study entitled "Power Line Fields and Public Health," concerning the potential dangers of cancer from electromagnetic fields that emanate from common power lines and electrical appliances.

The APS concluded that "the scientific literature and the reports of reviews by other panels show no consistent, significant link between cancer and power line fields" and "the preponderance of .. research findings have failed to substantiate those studies which have reported specific adverse health effects from exposure to such fields.

"While it is impossible to prove that no deleterious health effects occur from exposure to any environmental factor, it is necessary to demonstrate a consistent, significant, and casual relationship before one can conclude that such effects do occur. From this standpoint, the conjectures relating cancer to power line fields have not been scientifically substantiated."



Special Event Stations

The Great Circus Train

The Great Circus Train will depart Baraboo and begin a two-day trip to Milwaukee on July 10. The train carries almost 30 flat cars loaded with colorful circus wagons for the Great Circus Parade in Milwaukee the following Sunday. Look for special event station K9ZZ on July 10 and 11 on 20 and 40 meters SSB, just above the bottom of the General Class sections of those bands. Operation will be from about 9 a.m. to 3 p.m. each day. On day one, the train goes from Baraboo to Portage via Madison and, on day two, from Portage to Milwaukee. **For a certificate, a 9 x 12 self-addressed stamped envelope with three units of first class postage is required. If no envelope is sent as specified, you will not receive a confirmation.** QSLs go to Jim Romelfanger, K9ZZ, 412½ Ash Street, Baraboo, WI 53913. Please allow at least eight to ten weeks for your certificate to arrive.

Experimental Aircraft Association Convention and Fly-In

Members of the Fox Cities Amateur Radio Club will operate W9ZL from the Experimental Aircraft Association Convention and Fly-In at Wittman Field in Oshkosh, WI, on July 27, 28, 29, and 30. Operation will be from "Pioneer Airport", adjacent to the EAA Aviation Museum. Operations will be in the General phone portions of the HF bands, as well as RTTY and CW as conditions and operators permit. The club also will be giving "on-grounds" information (no QSLs, please) on 146.52 simplex. For the duration of the convention, Wittman Field is the world's busiest airport. Proper QSL and SASE only for contacts go to Wayne Pennings, WD9FLJ, 913 North Mason, Appleton, WI 54914 for a special 8 x 10 picture certificate.

The APS said that billions of dollars are being spent by states and municipalities to mitigate and litigate this perceived problem and "the burden of cost placed on the American public is incommensurate with the risk, if any."

A background report on this issue by David Hafemeister is available on the Internet through the APS World Wide Web HomePage at: <http://aps.org>.

- The ARRL Letter, 6/7/95

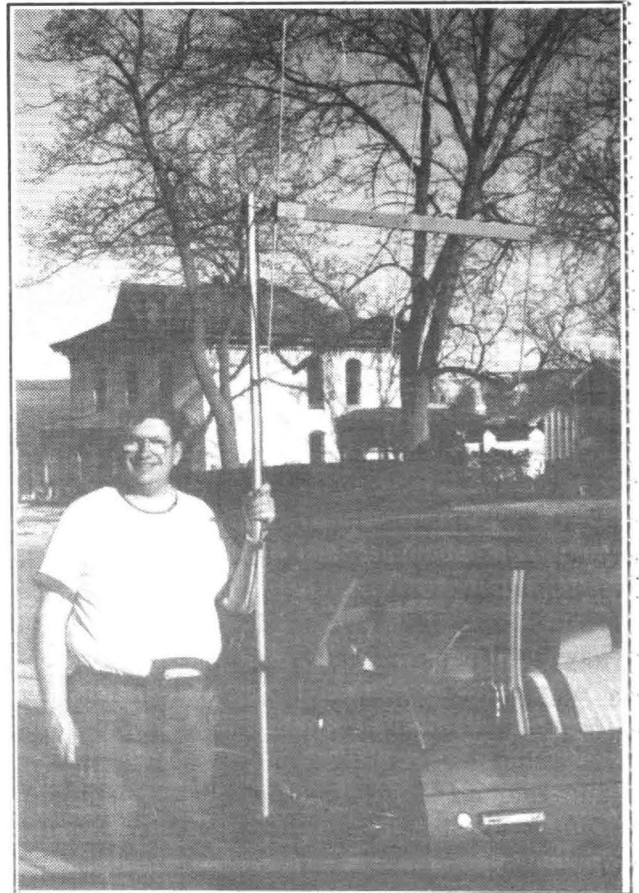
New Advanced Class Question Pool

Effective July 1, 1995, a new Advanced Class question pool takes effect, and VE exams beginning on that date will use questions from the new pool. The new, 4th Edition of *The ARRL Advanced Class License Manual* covers these new questions.

- The ARRL Letter, 6/7/95

Send photos of your club or group's Field Day operation to Badger State Smoke Signals!

And the Winner is..



Al Johnson, AA7CS, of Dousman, was the official beam-turner and bearing-finder in a fox hunt held in May by the Yellow Thunder Amateur Radio Club in Baraboo. K9ZZ was the driver, with one of the YTARC class members riding in back. Team K9ZZ won the hunt for the first time, but it should have really been team AA7CS. This hunt was a sneaky, "dirty tricks" hunt. The beam is MFJ's 3-element portable beam, which goes together in two minutes. However, it's not made for being bounced around; periodic stops for element tightening were needed. It is a good antenna, though, and gave consistently accurate bearings and displays reasonable gain.

- Photo by K9ZZ

FCC Call Sign Update

The following is a list of the FCC's most recently issued call signs as of June 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0XW	KG0XC	++	KB0SWQ
1	AA1NO	KE1BU	N1VGK	KB1BSD
2	AA2XP	KG2CX	++	KB2UXP
3	AA3LW	KE3TS	N3VOD	KB3BJL
4	AE4IU	KS4YB	++	KF4AQY
5	AC5DE	KK5PK	++	KC5OYU
6	AC6NN	KO6WN	++	KE6URO
7	AB7KN	KJ7O	++	KC7LLW
8	AA8TS	KG8RR	++	KB8ZWA
9	AA9PB	KG9CQ	++	KB9KSE
N. Mariana	KH0R	AH0AW	KH0DW	WH0ABC
Guam	WH2P	AH2CZ	KH2NT	WH2ANM
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6OD	++	WH6CVT
Am. Samoa	AH8O	AH8AH	KH8CI	WH8ABB
Alaska	++	AL7QC	++	WL7CNA
Virgin	WP2R	KP2CE	NP2IG	WP2AHX
Puerto Rico	++	KP4ZO	++	WP4MYZ

++ All call signs in this group have been issued in this area.

- ARRL Bulletin ARLB061, 6/15/95

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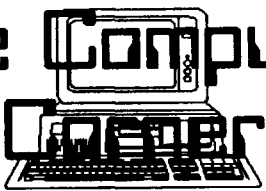
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Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

July 1995

The Computer



By Stan Kaplan, WB9RQR
105 Martin Drive
Port Washington, WI 53074-9654
(414) 284-9346

No. 22: Ports, Cables, Sex and the Medusa

What a title! Looks like a nautical topic mixed in with a story taken from Greek mythology! But it is just the formulas for ports and cables that I promised last month, plus a few hints and kinks. Nothing kinky.

What does sex have to do with it? Well, I always had trouble remembering which port connector on the back of my computers was the printer port, and which was the serial port. But there is a relationship that can help you remember, just as it did for me, and the relationship is based on the sex (more politically correct today, gender) of the connectors.

If we use the word PLUG to describe a male connector on the back of the computer, and the word SHELL to describe a female connector, then the following relationship exists. THE CABLE END THAT CONNECTS TO THE COMPUTER HAS THE SAME FIRST LETTER AS THE FIRST LETTER OF THE TYPE OF PORT IT IS SERVICING. Thus, a Parallel cable is a Plug where it attaches to the computer, and a Serial cable is a Shell where it connects to the computer. That also means that the connector on the computer is the opposite. A computer's Parallel (Printer) port is a Shell (female), and the Serial port is a Plug (male).

Now, on to building your own cables. Why bother? True enough, you can purchase a serial or parallel cable today for just a couple of bucks, but it is always more satisfying for us hams to homebrew when we can. Furthermore, even if you elect to purchase cables, you really ought to check them to make sure they are OK, which is easily done with an ohmmeter (use one with an audible tone; it really speeds things up). Below are the pin-outs for the three most common cables you will want to build or check, a 25 pin to 25 pin serial cable (used in most XTs), a 9 pin to 25 pin serial cable (useful with AT computers) and a printer (parallel) cable. Abbreviations for the functions (FUN) are shown, along with my personal preference for the wire color (col). Note that wire color is arbitrary; no engineering standard exists, so use mine or use your own. Other abbreviations: SHL = SHELL, FEM = FEMALE, PRN = PRINTER, CMPTR = COMPUTER.

25-25 Serial				9-25 Serial			
SHL FEM	FUN	my col	PLUG MALE	SHL FEM	FUN	my col	PLUG MALE
2	TD	red	2	1	CD	brn	8
3	RD	blk	3	2	RD	blk	3
4	RTS	gry	4	3	TD	red	2
5	CTS	pur	5	4	DTR	yel	20
6	DSR	blu	6	5	SG	grn	7
7	SG	grn	7	6	DSR	blu	6
8	CD	brn	8	7	RTS	gry	4
20	DTR	yel	20	8	CTS	pur	5
22	RI	org	22	9	RI	org	22

Radio amateurs are doing interesting and "different" things all the time. Badger State Smoke Signals would like to publish articles and stories about what's going on out there, like balloon-carried Amateur Radio experiments. Please send stories to the editor, with photos if available. ID everyone in photos with call and full name. Send material to the editor, see page 2 for the address. THANKS!

PRN PIN	FUNCTION	CMPTR PIN
1	STROBE	1
2	D1	2
3	D2	3
4	D3	4
5	D4	5
6	D5	6
7	D6	7
8	D7	8
9	D8	9
10	ACK	10
11	BUSY	11
12	PAPER END	12
13	SELECTED	13
16	GROUND	18-25
31	RESET	16
32	ERROR	15

Printer (Parallel)

Notes on the printer cable:

PRN end is a 36-pin Centronics plug. CMPTR end is a PLUG (male DB-25).

There are 16 pins soldered on the PRN end.

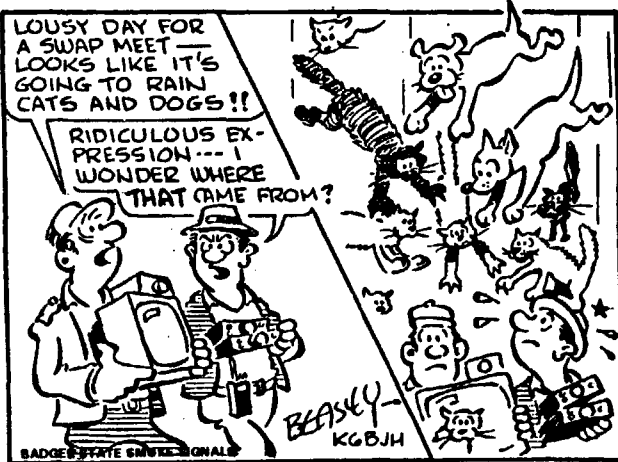
There are 23 pins soldered on the CMPTR end.

The cable you use will need 16 conductors.

By the way, remember our analogy last month about 8 people going down a hall, shoulder to shoulder (in parallel) being like the state of 8 switches sent down 8 wires at the same time? Look at D1 - D8 in the parallel cable. There are the 8 wires.

Let me end with a tip. If you roll your own, make yourself a "universal" serial cable, which I call a Medusa cable after the mythological Gorgon who had a head full of snakes (the one who turned any mortal to stone if they looked at her). The problem? Serial ports can require the use of either a 9-pin or 25-pin SHELL (female) connector on the end that plugs into the computer. The other end is always a 25-pin PLUG (male) connector. Murphy's law of serial cables says that if you need a 9-pin version, you will only have a 25-pin on hand, AND VICE VERSA. The solution? Make a cable with both a 9-pin and 25-pin SHELL connector on one end, and a 25-pin PLUG connector on the other. With one or two Medusa cables on hand, you will never have to stop your project long enough to go to Radio Shack for a new cable or cable adapter. □

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Ray Meyer, N9PBY, Editor). □



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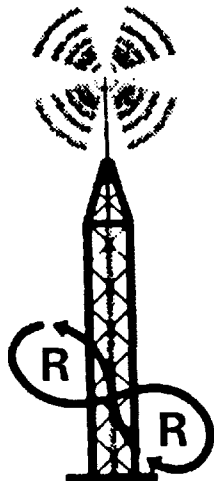
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- * From Rice Lake- 53S to Hy S to 124S to fairgrounds
- * From East or West- 29 to 124N through Chippewa Falls to fairgrounds
- *Talk-in on 146.31/91 Repeater*

Feedline Considerations: No Place Like Ohm

By D. R. "Kuby" Kubichek, N6JSX
1305A South 13th Street
Manitowoc, WI 54220

There is a phenomena that many hams do not seem to understand or are not aware of: impedance of coaxial feedlines. Coax at the VHF/UHF frequencies has a tendency to have high VSWR line loss. Most ham transceivers want to see a purely resistive impedance of about 50 ohms (I've found radio ranges of 45-60 ohms).

Impedance differences in coax line lengths can be compensated by adjusting antenna reactance by the driven and reflector element length adjustments, such as in a quad; the element interaction impedance is typically resistive, and ranges around 60 to 90 ohms, ie. 1.2 to 1.8 SWR into 50 ohm coax. But, in adjusting the overall wire length of the driver and reflector, an impedance of near 50 ohms can be created to ensure a near 1:1 match to the feedline coax.

This compensation method is highly impractical to accomplish when the antenna is on top of the roof. So, antenna tuners were created to make life easier for the operator. Do not be fooled into thinking that your station is putting out the rated power of your radio. An antenna tuner ONLY allows the operator to deceive the transceiver into seeing a 50 ohm resistive load impedance. The transceiver may appear to be transmitting the full power out, but the tuner is absorbing some of the energy to compensate and match to the load (coax and antenna). That's why antenna tuners are rated for maximum power handling capabilities!

The MOST efficient, sensitive, and performing antenna system is one that requires NO tuner or matching devices to compensate for impedance mismatch or non-resonant antennas.

Theoretically, at every 1/4 electrical wave-

length back from the antenna the input impedance, at that physical location, should be resistive. In between the 1/4 wave length points the impedance will be a complex value consisting of capacitive or inductive reactance, causing an increase in VSWR and a decrease in transmitted power and receiver sensitivity. The other problem is the coax velocity factor that is directly proportional to the coax quality and cost. Cheap coax wave points can be more than 5% off due to inconsistent coax construction, material variations, and inconsistent density of the coax braided shielding. These factors all have a bearing on the coax velocity factor. Quality coax should have less than 2% variance over 1000 feet.

But we economical hams who cannot afford top-grade coax can compensate for some of the long coax run losses by cutting and pruning the coax to find an impedance combination that the transmitter will load into best. (However, be it known the following procedure optimizes the coax run for the same antenna and radio in use. If any item changes you may need to rerun this optimization of the coax run.)

This procedure can be done if you want maximum gain/power from the antenna system. The big difference in signal that I have notice in accomplishing this on my station was that:

The VSWR at the antenna was 1:1 across the band, BUT at the radio in the station the VSWR was 1.5:1 to 1.9:1. I cut (X") amount of coax off the feed line, IN THE SHACK, at the radio and was able to obtain an SWR of 1: 1 to 1. 2: 1. On two repeaters, the S-meter readings went from:

Repeater A: 8 to 15 S units

Repeater B: 1 to 4 S units

Continued on page 9

For The Ladies

By Nancy Johnson, N9NZM

Editor's note: This is the first in a monthly series for YL Amateur Radio operators. It is authored by Nancy Johnson, N9NZM, currently of the Dousman area. The Johnsons are in the process of moving. When that's done, we'll have an address for her in the heading. The column is specifically for YL hams, and will depend for its content and existence on input from YLs. We hope it will have a long and productive run. Until the Johnsons are settled into their new "digs," input for Nancy may be sent to the editor. Please help make the column work and provide information and photos as she asks. She may also occasionally dispense a bit of sage advice to those with questions from the YL point of view. A photo of her "other half", Al Johnson, AA7CS, is on page 5 of this issue.

I have been a ham since only 1991, and a no code one at that. Until recently, I have been a full-time student working a part time job. Now comes the challenge of job hunting.

I like to tell people that I picked up most of what I know about radio by being married into it for more than 20 years. I also say most of it was by osmosis; the theory came easily but not the code. Most hams have tried to either encourage or help me with the hobby. Resistors to resistance, conductors to conductance, coax to beams, antennas to rotators were all new terms to us all at one time.

What other hobby almost requires an AM/FM radio playing, a ham radio in one hand, a scanner in the other, a cup of coffee dangling from the cup holder, and only two hands to use it all. And, if you think that on vacation you can leave the rig at home, you're wrong. That demands taking along the hand held rig as well (the more the better).

Putting up a free-standing tower is just an occasion to have a party. A swap fest is not just a place to find reasonable equipment, it's a social event of the month or whatever. Why is it that if a lady goes out to socialize we're told we talk too much but, but get a group of hams together and see who's talking now!

Since the first of the year, my husband's car has been in the shop a lot, so he borrows mine. It's become a joke because my rig has PL tones and his does not, so I think he likes driving my car more. Not only that, but when he drives it and I'm along, who plays radio more often? Hubby!

The next thing I'd like to work is DX and satellite, if I can figure out how, and get it set up. Any suggestions?

I have an IBM 8086, upgraded to a 286, Kenwood TS-520 with a ladder line multi-band antenna and a tuner for the set up, and 2 meters in the car with a 5/8-wave trunk-mount antenna.

Most larger papers have articles just for lady hams, so I would like to challenge you to submit ideas: the latest experimentation or futhest contact, newest antenna, questions, and your impressions of the hobby. We learn more by sharing knowlege with other hams, so I'll appreciate your input. Don't be shy. Pictures of you and your station are appreciated. My address is changing to 407 Adams Street, Fort Atkinson, WI 53538, so you can forward ideas to me, or to BSSS in care of Jim, K9ZZ, at the address listed in front. □

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Twin PBT (Passband Tuning) electronically narrows the receiver IF passband and shifts the center frequencies

of the 455 kHz and 9 MHz IF filters separately or together for clear reception during crowded band conditions

The IC-775DSP provides a full 200 watts output, full duty cycle. Power MOSFET'S are employed in all stages of the PA unit, providing excellent signal quality and low IMD characteristics.

An advanced new PLL system without the use of a mixer enables very high stability signal production that is accurate over long periods of use. The use of DDS (Direct Digital Synthesizer) for all oscillation circuits means only one reference crystal is necessary for outstanding frequency stability. Signal resolution and display readout are in 1 Hz increments for accurate tuning.

To boost reception, two levels of preamp gain are selectable and three levels of RF attenuation provide the necessary reduction of receiver sensitivity when desired. A high performance wide-range receiver, 100 kHz to 29.990 MHz, offers exceptional performance and a high dynamic range of 105dB.

Versatile operating features include dualwatch so you can receive two signals on the same band simultaneously or monitor a DX station while operating on another frequency. The main and sub frequencies are completely independent and can be controlled with different tuning dials (including independent dial lock functions).

A triple band stacking registers allows you to memorize the three frequencies and modes used on each band. Push the band key once to recall the last used frequency and mode; twice to call the frequency and mode used prior to that; and three times to call up the frequency and mode used before that.

A channelized quick-split function offers the fastest possible method of operating split frequency. Simply push switches which set split frequency operation over a range of approximately 99 kHz in one to 99 kHz step channel separation.

A built-in high-speed automatic antenna tuner matches the connected antenna using an auto-preset memory in all ham bands, including 160 meters. The IC-775/DSP is also equipped with two antenna connectors. The automatic antenna selector memorizes the selected antenna in each band for automatic antenna selection when using two antennas. Additional features include a large function display employing CFL (Cold Cathode Fluorescent Lamp) construction for increased durability and increased operation, an IF monitor, a total of 101 memory channels, multiple scanning features, VOX and a built-in subaudible tone encoder.

Uninterrupted data communications such as RTTY, packet and SSTV are possible by utilizing the data mode, whereby voice input through the mic is automatically inhibited.

CW enthusiasts will appreciate the built-in memory keyer with three separate channels and automatic repeater function, each capable of storing up to approximately 40 characters. A built-in electronic keyer function allows programmable CPU control of your transmitted dot/dash ratio adjustable from 2.8:1 to 4.5:1. CW pitch control from 300 Hz to 900 Hz in 20 Hz steps, full break-in (QSK) and two key jacks (an electronic key jack on the front; normal key jack on the rear panel) are also included. CW reverse mode can be used when a nearby interfering signal makes it difficult to copy the signal. You can change the carrier point from USB to LSB and vice-versa to change the pitch of the interfering signal relative to the desired signal.

The suggested retail prices for the IC-775 and the IC-775DSF-I are to be announced. For further information, please contact your local Icom Amateur Radio dealer or Icom America, Inc., 2380-116th Avenue N. E., Bellevue, WA 98004, (206) 454-8155.

- Icom news release

MFJ-1798 10 BAND ANTENNA

The MFJ-1798 has no ground or radials and offers full size performance for only \$269.95.

The New MFJ-1798 is a "Perfect 10!" 10 bands that is, 75/80, 40, 30, 20, 17, 15, 12, 10, 6 and 2 meters with only one antenna. The MFJ-1798 Antenna offers separate full size radiators, end loading, elevated top feed, low radiation angle, very wide band-width, and will soon be known industry-wide as the highest performance, lowest priced no ground vertical ever!

The MFJ-1798 gives you high efficiency for more power which equals stronger signals and more Q-5 QSOs. The MFJ-1798 gives you exceptionally wide bandwidths so you can use more hard-earned frequencies! You get a very low radiation angle for exciting DX, fully automatic bandswitching, omni-directional coverage, low SWR and full 1500 watts PEP SSB power handling.

MFJ's unique Elevated Top Feed™ puts the maximum radiation point high up in the clear blue yonder where it will do the most good. Your signal gets out even if you are grounded!

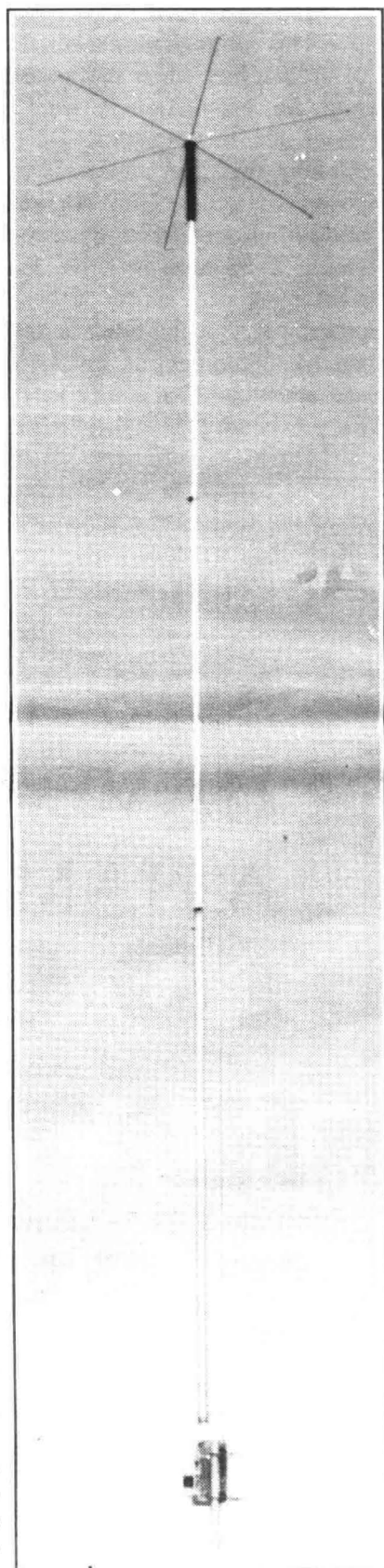
The MFJ-1798 is self-supporting and only 20 feet tall. It will mount easily to any ground level spot, tower top, condo, roof top -- just about anywhere!

The MFJ-1798 operates with end loading, the most efficient form of loading, and provides fantastic performance on 30, 40, 75/80 meters with excellent bandwidth, low angle radiation and automatic bandswitching.

The MFJ-1798 is "easy as A B C" to tune. The frequency adjustments are nearly independent -- adjusting just one band has a minimum effect on resonant frequency of other bands.

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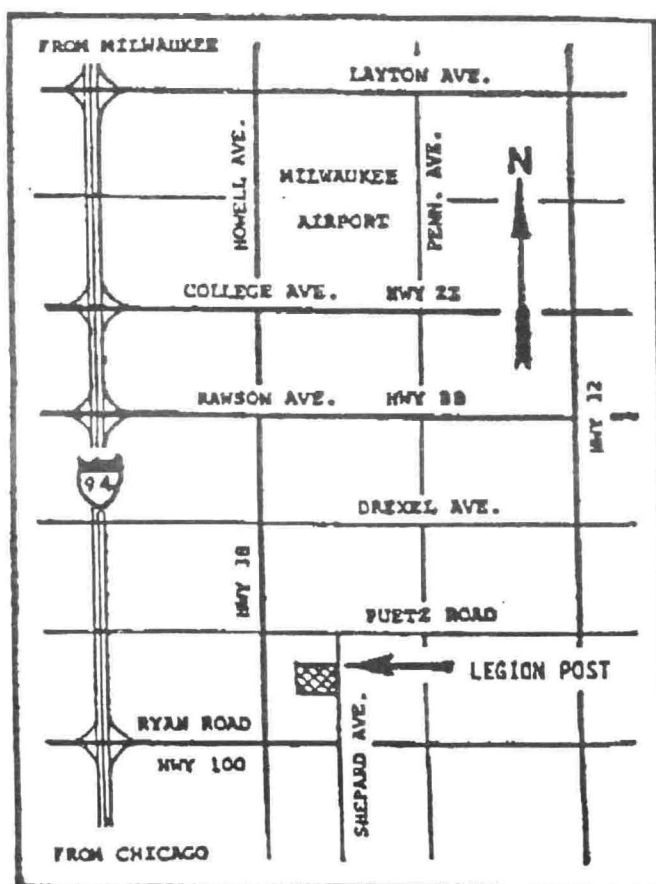
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Feedline Considerations

Continued from page 8

The pruning method of small amounts of coax was 1 to 3 inches at a time. I checked my work in two fashions:

1. a. At the antenna end of the coax, connect a 50 ohm 1% 1/2 watt resistor, and at the coax (radio end) measure the exact resistance using a high resolution DMM. (Insure that you have an accurate reading of the resistor; it may not be a true 50 ohms) Compare the two readings and prune until the readings are the same exactly.
- b. Reconnect the coax to the station and check VSWR. Re-prune to match the VSWR to your radio impedance (it should be almost on the button), but remember transmitters are not always pure resistive loads.
2. a. Install a VSWR meter in line and keep pruning the coax until you get the lowest VSWR.
- b. Another method is to make jumpers at various lengths 3, 6, 9, 12, 18, 30, 36 inches, and insert them into the antenna line to simulate reciprocal pruning distances to a 1/4 wavelength dimension. Use a jumper between the radio and meter that is odd quarter wavelength multiples, ie. 3/4 wave length. A smart investment in high-quality coax for jumpers is always a smart addition to any station, ie. RG-214U.

Ask Elmer

Continued from page 4

Q: Why is there a 60 MHz and 66 MHz computer CPU speed?

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ATTENTION PARTICIPATING CLUBS

This is a reminder that your club's minutes and any other information for publication in the next month's issue must be sent to us no later than five days after your club's meeting. If you will not be sending any information for any given month, please let us know so that we don't hold space and then have to scramble for fillers. Finally, the fastest way to get info for publication (not just from clubs, either) is to send by landline modem to the RF Deck BBS here in Baraboo. The Deck's phone number is (608) 356-4777. It is owned and operated by Steve Schulze, N9UDO. On a landline board, you are not restricted to ASCII uploads; use whatever word processing format you wish. The BSSS Upload Area is File Area #5.



SSB
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FOR SALE: KDK FM-2033 2-meter FM transceiver. \$150.00/best offer. Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. (608) 742-3560.

WANTED TO BUY: Kenwood MC-50 microphone. Also, a mike and cable to fit a Kenwood TR-7400A 2-meter rig. Bob Johnson, WB9EIW, (608) 742-6460.

NEW PRODUCTS

Continued from page 8

one antenna. If you purchase the MFJ-1798, you will be trouble free DXing and ragchewing for many years to come!

The MFJ-1798 10 Band Antenna comes with MFJ's now famous "no matter what" full one-year unconditional guarantee.

For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., P. O. Box 494, Mississippi State, MS 39762 or call (601) 323-5869, Fax: (601) 323-6551, or order toll-free at 1-800-647-1800.

- MFJ news release

CQ INTRODUCES ONLINE ORDERING

(Hicksville, New York) - CQ Communications, Inc., publishers of *CQ - the Radio Amateur's Journal*, today announced the introduction of online ordering for its magazines, books, videos and other products. The online ordering system is available to anyone with access to Internet e-mail, and is designed to combine added convenience with a high level of security.

"This system opens the doors of CQ's bookstore to the whole world," says CQ Communications Marketing Director John Doff, K1AR. "As a major publisher in the field of hobby radio, CQ offers a wide array of books, videos and magazines to the radio hobbyist. Plus, because CQ is also a dealer for other major publishers, we can offer online ordering of publications from the ARRL (American Radio Relay League) and RSGB (Radio Society of Great Britain.), among others."

Accessible 24 hours a day, users of the CQ online ordering system place their orders via email directly to CQ headquarters in New York, where staff members receive and process them. CQ Online Services Coordinator Rich Moseson, NW2L, explains that the system's security lies in the sign-up process.

"It's really quite simple. Customers sign up by requesting an online application form via email. They provide their mailing and credit card information on that form, which is then returned to us by fax or regular mail -- not by e-mail. We assign a customer number, which is the only information that ever travels on the Internet. And since we'll only ship to the address on the application form, there's no incentive for anyone to use someone else's customer number."

The CQ Online Ordering System is available now. Sign-up applications may be requested via e-mail only, to any of the following addresses: CQ@genie.geis.com, CQMagazine@aol.com, NW2L@aol.com, 72127.745@compuserve.com, or p00259@psilink.com.

- CQ news release

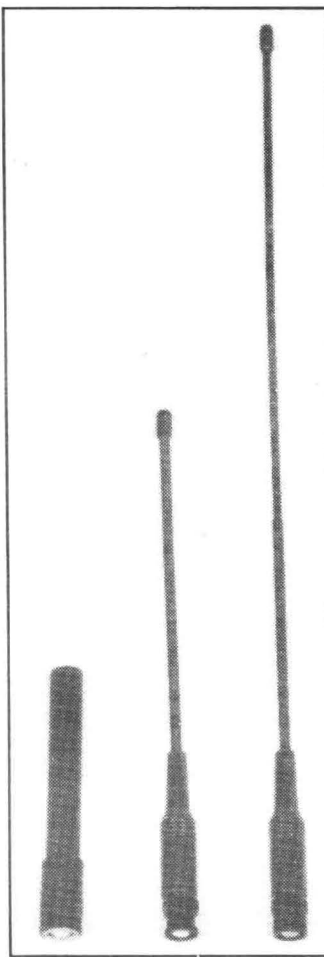
MFJ-1717 DUAL BAND "FLEXIBLE" DUCK

The MFJ-1717 is a High Gain Dual Band 144/440 MHz "Flexible" Duck Antenna for handhelds and is only \$19.95.

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take all the bending, twisting, flexing and tugging that you can dish out but will keep on going! It will pop right back up from anything you throw in its way because the radiator is protected by a durable, synthetic rubber compound and has a hard protective safety tip. A strong rigid base protects the matching network from flexing and changing frequency.

The MFJ-1716 is similar to its big brother, but has an 8 3/4 inch length and 1/4 wave on 440 and efficient loaded 1/4 wave on 2 Meters and is priced at \$16.95. The youngest duck, the MFJ-1718 is similar to its bigger brothers. Add this strong, flexible "shorty" duck at 4 1/4 inches to a 2 Meter handheld and fascinate at the outstanding signals! It has a super efficient, high-Q helical wound radiator that is specially impedance matched to handhelds for maximum gain. It has a special low price at \$12.95.

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- MFJ news release

MFJ-66 DIP METER ADAPTER

The MFJ-66 Dip Meter Adapter is a sensitive and very accurate bandswitched dip meter for only \$19.95.

Now, with the purchase of the MFJ-66 Dip Meter Adapter you can turn your MFJ SWR Analyzer into a sensitive and accurate band-switch dip meter, just by plugging in a dip meter coupling coil!

- With the MFJ-66, save time!
- With the MFJ-66, eliminate the guesswork!

Now, with the purchase of the MFJ-66 Dip Meter Adapter, you can save time and eliminate the guesswork of winding coils, measuring capacitance, measuring velocity factor and electrical lengths of coaxials.

With your purchase of the MFJ-66, you'll be able to determine resonant frequencies of tuned circuits and measure the Q of coils.

Two coils will cover 1.8-170 MHz, depending on your MFJ SWR Analyzer. The MFJ-66 Dip Meter Adapter comes with MFJ's full one year unconditional guarantee.

For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762 or call (601) 323-5869, Fax: (601) 323-6551, order toll-free at 1-800-647-1800.

- MFJ news release



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Badger State Smoke Signals needs an advertising salesperson. A commission is paid, as are certain expenses. If you are interested, please contact Publisher Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901, or call Ken at (608) 742-3560.

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PARTICIPATING CLUBS AND ORGANIZATIONS

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, July 6th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on the 147.15 Medford repeater (+ 600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF JUNE 1, 1995 MEETING

Meeting was called to order by President N9GEN. Present were N9FZD, W9LEE, W9QHI, N9UBR, KB9BLV, N9GHZ, KA9WDX, KB9KBN, N9GEN, KE4FE, WD9FWP, AA9LE and N9UBQ.

Minutes of the May 4, 1995 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer KA9WDX.

N9GHZ reminded those present that Amateur Radio communications have been requested for the annual American Cancer Society walkathon to be held within the city limits of Medford on Saturday, June 3rd.

N9UBQ sent a memo to Northway Communications giving them our approval to go ahead with the antenna sharing project.

N9GHZ was directed to change the access codes for the 147.15 repeater autopatch, and mail the new code, along with an effective date, to all currently paid club members.

PL tone for the 147.15 repeater input and output were discussed. The repeater presently already has PL on the output. It was mentioned that the 145.47 repeater recently went to a PL input in order to reduce intermod problems.

W9LEE advised that he still has in his possession a length of coaxial cable and a 2-meter antenna with some damage to it that belongs to the club and due to his present circumstances would like to transfer it to someone else for safekeeping. KB9BLV volunteered to store these items and will check on repair costs for the

antenna. Another member expressed an interest in purchasing the cable. This will be discussed further at a later date.

N9UBQ, Taylor County Emergency Government Coordinator, discussed several Emergency Government items of business as they pertain to local Amateur Radio and ARES activities.

Meeting was adjourned.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

On Saturday, May 20th, N9FZD provided communications for the annual St. Jude's Hospital Bike-A-Thon, held in Medford. There were a total of 12 bicycle riders riding the course.

On Saturday, June 3rd, the following Amateur Radio operators provided communications for the annual American Cancer Society walkathon, held within the city limits of Medford along a 5-mile course: N9GHZ (NCS), N9ZLU, KA9WDX, N9RRF and N9UBQ.

CONGRATULATIONS TO..

• Jessica Winzenried, KB9AMX, Colby, Wis., who graduated from Colby High School on May 19th. Jess is the daughter of Marc Winzenried, WA9ZCO.

OTHER NEWS

• Jim Kline, KA9GCW, Ogema, Wis., now has his accreditation as an Amateur Radio Volunteer Examiner (VE).

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

MINUTES OF 13 JUNE 1995 MEETING

The meeting was opened with a roll call by Kevin Zehr, N9OHE, President, at 1935 hours. Secretary's and treasurer's reports were read and approved.

Fred Boetcher, WU9R, reported that Field Day will be held at the softball field west of Towers Dormitory on the upper campus of UW/EC. There will be two HF stations and one VHF. All ops are welcome.

Gale Sorum, WD9HFT, attended the W.A.R. meeting at Cadott on June 10. About 20 people were present. Among other items, there is a new repeater coordinator, and coordination of repeaters between Minnesota and Wisconsin was discussed.

Our former president, Bill Jablonske, W9 Never No Saint, has been transferred from St. Charles Parish, Chippewa Falls,

to St. Agnes Parish, Schofield, WI, and will leave this area towards the end of the month. He will be missed. A tower party June 12 took down Bill's 80' tower and the TH6-DXX with various and sundry other antennas. Participants included KC9NN, W9BAR, WB9BP, N9CGS, and W9NW.

Hamfest matters: Ticket-taking and table crews pretty well set. Flyer distribution discussed. Security: volunteers needed. Door prizes set. Lunch counter (WU9R, prop.) set.

W9NNS announced the first annual Hayward Hamfest, to be held at the Armory in Hayward on the Saturday of Labor Day weekend.

Lunch committee for the July 11 meeting: N9HME, N9OHE.

Meeting adjourned at 2028 hours.

Respectfully submitted:
Carl Searing, W9NW, Secretary



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

MEMBERSHIP MEETING JUNE 8, 1995

The June membership meeting of the Washington County ARC was called to order by President Walt Gossfeld at 7:35 p.m. with 13 members and 1 guest present.

Secretary's report was read by Tom, N9LZW. A motion by Sherm, W9NGT, seconded by Paul, W9SIZ, to approve the minutes as read. Motion carried.

Financial report was read by Dave, KA9RNU. Dave announced two new club members, Bob Schwigel, N9ZLA, and Dale Anderson, K9SK. With the new members, our club membership is at 45. A motion by Don, K9GR, seconded by Rip, W9SIZ, accept the financial report as read. Motion carried.

Repeater Committee report was given by Don, K9GR. The repeater work is nearing completion. All that remains is for final tuning of the repeater and reinstalling the antenna. Ground radials have been installed and some landscape work remains to be done.

Picnic Committee report given by Larry, WB9BVB. Larry explained that the club picnic is scheduled for August 5 at Riverside Park in West Bend.

OLD BUSINESS

Rip, W9SIZ, discussed plans for Field Day. The Field Day site as usual is the St.

Lawrence Fire Dept grounds. Rip went through a list of items that will be required, including operators, rigs, antennas, masts, tuners, switches, coax and connectors, heaters, lamps, bug lights, 12V batteries, heavy duty extension cords, tools, keys, microphone, etc. Don, K9GR, and Walt, N9LLS, have offered the use of their rigs for Field Day. Plenty of help will be needed for Field Day setup.

Tom, N9LZW, reported that the club had a table at the AES Superfest '95 and handed out information sheets.

There was a motion by Sherm, W9NGT, seconded by Rip, W9SIZ, to adjourn the meeting. Motion carried.

NEW BUSINESS

Dave, KA9RNU, discussed some information on club liability insurance that he had. He will check on current premium costs for the next meeting.

Respectfully submitted:
Tom, N9LZW

July Breakfast Schedule

July 1, 9:00 a.m., Parkside in Jackson
July 8, 9:00 a.m., Fay's in West Bend
July 15, 9:00 a.m., Slinger Inn in Slinger
July 22, 9:00 a.m., Jimmy's in Jackson
July 29, 9:00 a.m., Corfu in Hubertus ☐

Racine Megacycle Club

Alex Voss, N9RGX, Secretary

3333 Standish Lane • Racine, WI 53405

MEETING MINUTES MONDAY, JUNE 12, 1995

In the conspicuous absence of club president Paul Smedegaard, N9RGW, the meeting was called to order by vice-president Bridget Johnson, N9XGX, at 7:33 p.m.

Alex, N9RGX, gave the secretary's report. The minutes were accepted as read with two corrections. Dave, AA9HL, who took the minutes in my absence got his own call sign wrong. The banquet awards committee was to get a table at the hamfest, not the QCWA.

Dave, AA9HL, gave the financial report. It's all there, and we have renewed our incorporation papers. We have also received many donations from various sources. The report was accepted as read.

OLD BUSINESS

Dan, KA9OIL, gave the Field Day Report. He asked the club to purchase three (3) trophies for the first Field Day Hidden Transmitter Hunt. (The hunt will be at 10:00 p.m. on the 24th during Field Day) After some discussions, a motion was called and seconded. The motion passed. Dan then mentioned that Cheryl, WS9P, will take care of the visitor's log. Cheryl, WS9P, and Alex, N9RGX, are taking care of the public relations. Al, W9CKQ, and Richard, WA9HOH, will bring the satellite station. Rob, KF9ZT,

HAM CALENDAR

Courtesy
Racine Megacycle Club

Jul 8 Hamfest at Oak Creek
Jul 10 RMC Meeting
Jul 15 Special event station *
Jul 21 RMC Fox Hunt
Jul 22 Special event station *
Jul 30 HAMFEST RACINE!!

Aug 14 RMC Meeting
Aug 18 RMC Fox Hunt
Aug 26 Hamfest at Onalaska

Sep 11 RMC Meeting
Sep 15 RMC Fox Hunt

Oct 6 RMC Fox Hunt
Oct 9 RMC Meeting

* Racine Megacycle Club, W9UDU, operating during Racine's Salmon-A-Rama.

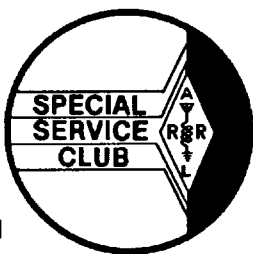
will bring the packet station. Dave, AA9HL, and Dave, KC9NG, are working on the logging program. Mike, N9PMO, and Keith, N9PBA, will be working on VHF and UHF. Kenny, N9WHR, Dan, KA9OIL, Dave, KC9NG, and Cheryl, WS9P, will work on coordinating activities in the tents. He also asked for more volunteers

Continued on page 11

Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES JUNE 6, 1995

Meeting was called to order at 7:00 p.m. by Feroz, WU9N.

No minutes were read since secretary was absent.

Treasurer's report by Mark, N9UNW, was read and approved.

Swapfest: Dick, K0JYB, reported that the coffee will be donated by Skogen's. Several more vendors were contacted. Help is needed for security. People will be contacted.

Repeater: Duane, W9HWQ, reported that everything is working fine as of this time.

440 Repeater: We still are looking for duplexers.

ARES: Kent, W9LZQ, reported no activity to report on.

Field Day: Bill, KE9XQ, reported there will be visitors from Rochester. Help is still needed. \$100 was allocated for miscellaneous expense.

Tower: Greg, KA9FOZ, reported that repairs have been made to the tower, but it still needs painting. Motion was made to pay \$50 for tower repair.

Ham Radio Weekend: W9LZQ reported a tentative date has been set for September 16, 1995.

OLD BUSINESS

Walt, AA9AW, and Kent, W9LZQ, reported that they are seeking comments on the constitution and on incorporation of club as not profit organization.

W0JDC reported on estate of W4ST. An inventory has been made and minor items will be sold by the club on a commission basis.

KE9XQ reported that exams will be held at swapfest. Schedule to be announced.

Feroz, WU9N, suggested that we need new involvement in committees so that members do not suffer burnout.

Meeting adjourned at 8:00 p.m.

Racine Megacycle Club

Continued from page 10

for various activities at field day. We will have a CW tent, a voice tent, a VHF/UHF tent, and a food tent. Dan will "baby-sit" the generator. Dan also asked for a Novice or a Technician who has been licensed no longer than six months to operate their own station at the Field Day site.

Alex, N9RGX, gave the Field Day PR report. Look for us in the *Racine Journal Times*, the *Kenosha News*, the *Racine Reporter*, TCI Cable of Racine, Jones InterCable of Kenosha, WRJN AM 1400, Sunny 104.7 FM, WKKE TV 55, and WISN TV 12. Cheryl, WS9P, talked with Jim Kneiszel of the *Racine Journal Times*, the same reporter who did a story on the Racine Megacycle Club a few months ago.

Cheryl, WS9P, gave the Special Event Station Report. The Racine Megacycle Club (W9UDU) will have a special event station on July 15th and 22nd during Racine's Salmon-A-Rama fishing event.

Fox Hunt Report: Rob, KF9ZT, Cathy, N9ZWN, and Joe, KB9HSJ, were "The Fox" and were found by first place winners: Cheryl, WS9P, Gene, WB9ZKY, Bonnie, WB9ZKX and Dave, WB9USI.

NEW BUSINESS

Dan, KA9OIL, also brought up numerous fund raising possibilities. He is asking for volunteers to help.

Larry, WA9JMO, of the Banquet Committee, brought up the possibility of having more awards for the banquet. He suggested the following awards: Life Time Amateur Radio Award, 10 year Amateur Radio/Community service plaque, and a 3-5 year community service plaque. He went on to say that the Ham of the year award should be for recognition of service in the past year only (currently, it is more like a life-time service award.) He passed out his suggestions in writing to the membership. Members of the Megacycle Club

have asked for time to review these revisions before voting on them.

Larry, WA9JMO, also brought up the fact that we may have a problem with our meeting place. The Red Cross has been the home of the Megacycle Club for some years. He asked that the club form a committee to look in the possibility of securing a future site in the event of the loss of the Red Cross. A motion was made and seconded that we form such a committee, the motion passed. Vice-President Bridget, N9XGX, appointed Larry, WA9JMO, Kenny, N9WHR, Ken, N9NBC, and Dan, KA9OIL, to the committee.

The next Ham Radio Class will be in the fall and Larry, WA9JMO, has asked for more volunteers.

Bill, W9OVZ, has asked to give a program after a future meeting. He is looking at giving a QRP program after the September 11 meeting.

Dave, AA9HL, mentioned that we still have tables and tickets available. Contact Dave, AA9HL, or Dave, WB9USI. Tickets are \$3.00 in advance \$4.00 at the door, tables are \$8.00 a piece, add \$1.00 for electricity.

Larry, WA9JMO, recalled the last December meeting, where the Megacycle Club met at a restaurant and took a trolley ride to see the Christmas lights. (See December minutes in January 1995 BSSS). He asked if we could do it again this year. A motion was made and seconded. The motion passed.

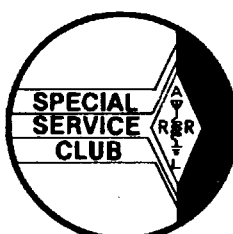
Dave, WB9USI, brought up that the Racine Fire Department has been appointed the South-East Wisconsin Regional Hazardous Material Response Team. They are in the process of getting a HazMat command post/center. There is a possibility of an Amateur Radio station in that post. Ham Radio is already in the Racine Emergency Government, The Racine County Sheriff, The Racine Police Department's Community Oriented Police (COP) van (formerly the Racine Alcohol Patrol [RAP] van).

A motion to adjourn was made, seconded, and passed unanimously at 8:55 p.m.

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES JUNE 14, 1995

The meeting was called to order by Club President Barney, N9XER at 7:32 pm. The club voted to accept the minutes for the May meeting, as printed in "Smoke Signals." Treasurer Glen, AA9MT read the treasurer's report to the meeting attendees. This consisted of the general balance of the club's funds, and the financial results of MANCORAD's May hamfest. Both items showed the club to be in good financial shape. The treasurer's report was accepted by club vote.

President Barney then read to the meeting attendees a thank you note sent to the club by Ken Tate, WB9OBX, thanking the club for sending him a "get well" fruit basket, during his recovery from open heart surgery. Ken is home from the hospital, recovering from his surgery, and hopes to be able to attend the club's July meeting. Two other club members were also recently hospitalized for illness: Emil, KD9ZF, and John, WB9ESM. Both members, thankfully, had relatively short stays in the hospital. Emil and John both sent their thanks to the club for the fruit baskets sent to them during their illness.

Ron, WS9X then told the meeting attendees about the macros that will be used with the club's new repeater controller. Basically, with the exception of a few additions and changes, the repeater macros will remain unchanged. Ron also demonstrated some of the new macros that are now available on the repeater. The repeater will be capable of PL operation, as soon as the TS-32 PL unit arrives from the manufacturer, and is installed in the repeater control unit. It is anticipated that PL will only have to be used on the repeater during band openings that cause other distant 146.61 repeaters to interfere with the club's repeater.

Ron then asked the club if there were any questions about the new controller. Kuby, N6JSX, asked two. First, he asked if a different courtesy beep could be used to indicate when the repeater's PL is turned on. Ron said that it would be possible to do that, and that he would look into setting up the controller to do this. Also, Kuby asked if the controller could be set up to run CTCSS (for those of you unfa-

miliar with CTCSS, it is basically like a PL function on your radio; When a radio is in CTCSS mode, its squelch won't break, unless it receives the appropriate CTCSS tone from another radio [or repeater]; therefore, distant signals that could still break your squelch [in spite of your repeater being on PL], are blocked out). Ron said that this could also possibly be done.

Ron also informed the club, that the repeater TD volume will be turned down.

President Barney, N9XER, then showed everyone at the meeting the club's new 2M J-pole. This antenna will be used for general 2M operating, and will replace the quarter wave mag mount that was furnished by Eric, WD9IAB, as a temporary antenna. Many thanks go out to Bob, KB9INK, for building this antenna.

Barney also informed the club about a conversation he had with the mayor of Manitowoc. This conversation dealt with the club's prospects for having space in the new city/county building, when it is built (several years from now). According to the mayor, we are low on the priority list for space in the new building. The club needs to find ways to raise itself higher priority-wise. Members with any ideas should get in touch with Barney, or any other club officers.

Help is needed with providing communications for two bicycling events. The first one is the bicycle races on Sunday, July 9. The races start at 11 a.m., and end at 6 p.m. People are needed to help out for one or two hour shifts (the amount of time depends upon the number who help out). The second bike event, is the Leukemia Society bikeathon. This bikeathon will travel from Milwaukee to Sturgeon Bay, with an overnight stopover at the UW-Manitowoc County Center. Volunteers are needed for the legs that pass through Manitowoc, Kewaunee, and (part of) Door counties. If you are interested in helping out, contact Steve, N9PBL.

Several new members were welcomed to the club: Ed Clayton, N6WJA; Theresa and Gene Hartlaub (no callsigns yet, just passed the test); Sharon Barnard, KB9-KPX; and Dave Shemchak, KB9KQA. Welcome to the club! Also, congratulations to the four of you who just received your licenses!

President Barney, informed the club that Kuby, N6JSX has come up with a revised application form (as result of trying to expand the database of the club's PBBS) that might be worth adopting as the club's new application form. Unlike the old application form, this form has spaces for information on ham radio activities (such as ARES/RACES, VE work, type of

operating you like to do, etc.), which could help club members of like minded interests, to get in touch with each other. Any members interested in seeing a copy of this application form can either view it on the club's PBBS, or get in touch with the club secretary, WD9IAB, for a copy of

Please turn to page 12

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Mancorad Radio Club

Continued from page 11

it.

John, N29Z, informed the club that more help is needed to carry out the highway cleanup, the club does, as a part of the adopt-a-highway program. Recently, there has been a shortage of volunteers to help with this. Keep an ear open for any announcements of club highway cleanups.

Steve, N9PBL, told the club that the T-hunt of June 11 went very well. Also, for the first time, several amateurs from the Sheboygan area participated in the hunt. The transmitter was found to be hidden at Maribel Caves County Park. Everyone has a good time, and the Sheboygan hams invited MANCORAD members to participate in their T-hunt down in Sheboygan County, the following weekend (several members did).

Before the meeting closed, Chuck, W9BZU presented an ARRL flag to Bob, KB9INK, for his outstanding work at this year's hamfest. Thanks for providing all of the help, Bob!

The meeting closed at 8:45 p.m., and refreshments were served.

73, CU Down the Log.

Eric Rugowski, WD9IAB
MANCORAD Secretary

Meeting Attendees
June 14, 1995

Eric
Barney
Glen
Chuck
John
Oran
Terry
Janice
Bill
Steve
Ron
Chuck
Ken
Gene
Theresa
Mary
Dan
Dave
Bob
Red
Mike
Yogi
Ed
Kuby
Paul
Clarke

WD9IAB
N9XER
AA9MT
W9BZU
N29Z
N9VIA
N9PZT
N9IQZ
N9XEZ
N9PBL
ws9x
N9WUN
K9HAG

KB9GOY
N9FVZ
KB9KQA
KB9INK
N9GHE
AA9AA
WN9Q
N6WJA
N6JSX
N9QFX
K8BP

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MINUTES OF MEETING
JUNE 14, 1995

President Lori Jasper, KA9ZGD, called the meeting to order at 7:32 p.m. There was no program this month.

Frank Guth, W9BCC, had handouts for the members on the W5YI petition.

There was also information for members from the meteorologist from the Green Bay Doppler Office who gave last month's program.

Lori announced that our new Stevens Point police chief, Doug Carpenter, is an amateur radio operator. His call is KA9-YJL. Congratulations and best wishes to him in his new position. Also, Steve Kochanowski, KB9IIE, made the *Stevens Point Daily Journal* due to his participation at the 1995 World Summit of Children, to be held June 17-22 at San Francisco, California. Steve, who is 16, is only one of eight youth delegates from the United States to be invited to attend. Delegates to the summit will discuss problems facing children, create solutions and finalize proposals that deal with children and the United Nations. Congratulations Steve, and good luck!

Mary Eiden, KA9FAS, reported that the letter to the FCC concerning our objection to the W5YI petition went out. A copy was sent to the ARRL and W5YI's lawyer as well.

The minutes were accepted as printed in the BSSS. Joe Larson, N9JW, reported on the accounts and the treasurer's report was approved as read.

Art Wysocki, N9BCA, reported that the swapfest was a success. He is already working on next year's swapfest. He reported that the feedback he got on the fox hunt was positive.

Joe Larson, N9JW, reported that the support from the club for the Special Olympics was excellent. He reported that the everything went just fine. He thanked everyone for coming and helping out. He said that Bill Vickroy, one of the WSO Games Staff, told him we are very valuable and glad we are there to help out.

Joe also reported on the General Class and recent exams. Dave Olson, N9JQU, and Brian Asplin, N9MZI, from our club, passed the General 13 WPM Code and General theory. Congratulations to both of them! Out of 14 people who took the test,

11 passed. Joe said he may consider doing another General Class, and he is planning on a Novice/Technician Class this fall.

Bob Baird, W9NN, reported that .985 is working very well. Once again, he reported that he hears people passing through the area using it. He said that no one is using the voice mailbox, and that we could use the space it occupies to put on more messages/announcements.

Lori, KA9ZGD, announced we have people signed up for the August, September and December Monday night net control. She said we need someone to handle the net control for the remainder of June and all of July. Scott Jasper, NE9U, has the format and can send a copy of it to anyone who might need it. Please let her know if you are interested in taking the net for these dates.

Lori also said that people need to come forward and volunteer to handle Field Day, if we want to get one going. Please let her know if you are interested in making arrangements for Field Day.

She also wanted to know if anyone was interested in getting a fox hunt together in place of the August meeting, as we usually do each year. We will discuss it more in depth at the next meeting.

The meeting was adjourned at 8:12 p.m. The next meeting will be held July 12, 1995 at the UWSP Science Building in Room D217. No program was announced for the next meeting at the time of this report.

Respectfully Submitted:
Mary Eiden, KA9FAS, CWRA Secretary

ATTENDANCE

Frank Guth	W9BCC
Bob Baird	W9NN
Arthur Wysocki	N9BCA
Dave Olson	N9JQU
Joe Larson	N9JW
Joe Omernik	N9CGV
Mike Eiden	WD9JID
Gene Kroll	KE9MA
Deb Kroll	N9EIL
Frank Podach	N9JQR
Bob Berve	Guest
Dave Tamres	KB9IIF
Lori Jasper	KA9ZGD
Mary Eiden	KA9FAS

Quarter Century Wireless Association
Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Racine, WI 53402



The full bumper crop of mosquitoes Ken Knoff, N9NBC planted for the Great Mosquito Awareness outing on 11 June 1995 were a few days late. Only one (thank goodness) was seen. We all enjoyed a bumper crop of food and conversation. Thanks, Ken and Marbeth, for a great afternoon!

There will not be a meeting during the month of July! Next Chapter function will be the picnic on Sunday, 20 August 1995 from 1 p.m. til whenever.

The three Wisconsin Chapters of QCWA - "55", "162", and "174" will be gathering in Oshkosh on Saturday the 26th of August 1995 for a great social bash. Mark your calendars accordingly and watch next month's article for all the exciting details.

Our congratulations to Marbeth Knoff, who was recently honored for her volunteer work over the past four years with the mentally impaired in Southeastern Wisconsin.

Spencer Clope, W9LDH, who had ear surgery in April, is reporting a slight hearing improvement, but tells the Chapter one normally must wait for about a year

after the operation before real hearing improvements can be realized.

Larry McCalvy, WA9JMO, had surgery on 12 May 1995 to repair a rotator cuff tear. All is going well, but still has two to five months of physical therapy ahead in hopes of getting the shoulder back to normal functions.

Travis Baird, W9VQD suffered a stroke while visiting his daughter in California last April, and is currently convalescing at the Bradford Terrace Convalescent Center in Milwaukee. Travis is experiencing some paralysis of his right side. Marion tells me he can move about using a cane and, with the aid of his daily therapy -- a combination of physical, speech and/or occupational, has shown weekly improvements. It is my understanding Travis will be coming home when he progresses to the point of getting in and out of bed on his own. Good luck and God speed!

Our Chapter President, Bill Komistra, W9OVZ, will be demonstrating the finer points of QRP Ham Radio to the Racine

Continued on page 13

SHEBOYGAN
County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

The June 13 meeting of the Sheboygan County Amateur Radio Club was called to order by Steve, KF9KZ. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

MEETING SUMMARY

The club officer elections were held, with the following people elected: President - Chris, N9VKC, Vice President - Kurt, N9ZMO, Secretary - Mike, KF9SJ, Treasurer - Steve, N9TRK, and Board Member - Steve, KF9KZ.

The club was informed that Al, NF9R, will no longer be able to house the .706 repeater at his current location. A plan will be put together at the next business meeting on relocating the repeater. This will obviously be a high priority for the board in the next two months. The club would like to thank Al for his time and effort he has put in the .706 repeater and packet nodes.

OTHER CLUB EVENTS

If it is the second Saturday of the month, then there probably is a SCARC Fox Hunt scheduled. This month we had five teams, including a team from the ManCoRad club. All five teams found the fox, Kurt, N9ZMO, in the two hour time limit, with the earlier teams treated to a cook out. Next time bring more brats, Kurt! Joe, N9REH, was the first to find the fox, with Penny, N9TCF, seconds behind. Thanks to all who participated.

CORRECTION

Yup, I did it again. Last month I

Remember, no meeting July 11th.

Submitted by Michael J. Musiel, KF9SJ

BSSS Delivery Problems? Want Back Issues?

If your copy of BSSS arrives very late on a consistent basis (it is usually mailed around the first of each month), tear off the corner with the mailing label, write the date received on the label, and visit your post office. If the problem continues, do the same, but send the label with date received to K9EN. And, if you would like extra copies of back issues of BSSS, they also can be obtained from K9EN, who is our circulation department. For up to ten copies, please send \$1.00 per copy, which includes postage and hunting for the issues ("handling"). For more than ten, call K9EN for a price. The full address is Ken Ebner, Director of Circulation and Storage, 822 Wauona Trail, Portage, WI 53901, (608) 742-3560. Allow at least a month for delivery. His real job takes him all over the southern half of Wisconsin.

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings sponsors and guests.

Happy to report N9XHA, Chuck, from Spring Valley, is now KG9CT.

Did you know that WB9PMF, Tim, at Chippewa Falls, first call was WN9MAV? What were some of your original call signs? Drop us a line along with some of those phonetics.

WB9YMB, Jim, and yours truly, attended the Wisconsin Association of Repeaters meeting June 10th in Cadott. Attendance was about 20. Some of the tidbits of the event include WAR's mailing list is now around 400 and will be changing back to an envelope over the newsletters we receive quarterly. WB0WOT, Scot, will be leaving the position of frequency coordinator, and it appears that N9UNR, Dave, from Cedarburg, will be taking over this position.

Some discussion about ATV on 70cm and the possible discontinuation of coordination of this by the year 2000 was debated, with the inference that some may sue to remain there.

WA9JOB, Nels, suggested that 145.23 MHz could be used as a state wide "snapper" or startup frequency. Notify your coordinator if you intend on using this option.

It seems unlikely that the ARRL will take the FCC's offer of becoming a single point source of problem resolution, as they have rejected the idea thus far.

Scot reports that the Minnesota Repeater Council's proposal to realign use of links on 440 MHz or move them off of 440 MHz has been placed on hold. Nels indicated that a western WAR meeting was difficult to arrange on a yearly basis, but that we might expect one every two years.

Our sincere and heart felt sympathy to N9LRV, Gerald, and KA9ZDQ, Brian, Leff at the passing of wife and mother Eunice.

N9PPE, Jeff, at Bloomer, reports that he will be doing a lot of camping in the near future with his newly acquired fold down.

Many thanks to WJ9Y, Marlin, at Forest, for hosting the experimenters' get together on June 3. About 40 people attended this year's activity. Plans are to try to continue to have this each year.

Remember the Eau Claire Amateur Radio Club Hamfest on July 22 at Chippewa Falls fairgrounds.

73.

RCRA Secretary/Treasurer
KA9OMC, Steve Hart

QCWA Southeastern Wisconsin Chapter 162

Continued from page 12

Megacycle Club on Monday, 10 July 1995, at the Racine Red Cross Building; an interesting topic that should enlighten all his listeners (and viewers).

Al Algiers, W9HR, recently purchased and installed upon his tower a Hy-Gain Beam Antenna that was guaranteed to withstand an 80-MPH wind gale. Shortly

after installation a 40-MPHer snatched that antenna off his tower and sent it tumbling to back to earth. Al tells us that a contact back to customer service at Hy-Gain (I believe they are now operating under a new name due to a buy out or some other reason, but I can't remember, so I'll just call the company by their former name), with an explanation of his situation resulted in Hy-Gain cheerfully UPSing the damaged part replacements to him. It is nice to hear that there are still people around that stand behind their products.

73,

Larry McCalvy, WA9JMO

A Gleesome Threesome



As the saying goes, this is a bunch of cards to draw to. This picture, taken in summer 1994, clearly shows that even these three don't always take things too seriously. From left to right are your editor; Maury Mead, W9FBC, Neenah; and Ken Ebnetter, K9EN, busily trying to hide his lower face from the camera.

- Photo by George Halper/W9SUF

WISCONSIN NETS ASSOCIATION LTD.

NTS TRAFFIC REPORT May, 1995

A tip of the hat to all who made May a very successful month on the Wisconsin NTS Traffic Nets. With seven of the eight NTS Wisconsin net reporting, there were 3584 checkins and 2408 pieces of traffic passed.

The average number of checkins per net is 17.4 and the average number of messages passed is 11.7.

Thanks to the Badger Weather Net for raising the Wisconsin averages to their present high levels. The Badger Weather Net (W9AYK N/M) had the highest totals for the month with 1922 checkins and 2134 messages passed.

In May, two Wisconsin stations, W9AYK and WB9YPY, made The Brass Pounders League. To reach this lofty distinction, traffic totals in excess of 500 points or delivery/orinations in excess of 100.

Wisconsin had nine stations submitting Public Service Honor Roll Reports, and thirty stations submitted Station Activity Reports.

Submitted by:

Arthur A. Evans, KA9KLZ

Wisconsin Section Traffic Manager

WNA MEETING STEVENS POINT, WI June 11, 1995

Chairman Wayne Schanke, KE9VU, called the meeting to order at 11:32 a.m., June 11, 1995. The following members and guests were present:

KA9KLZ, W9KKM, W9RZW, WB9YPY, WB9ICH, W9AYK, K9FHI, N9VPZ, WB9JSW, K9ANV, W9YCV, KA9BAE, WB9SMM, W9NGT, K9UTQ, W9NGP, N9BDL, KE9VU, K9CON and W9CBE.

The Chairman called for the approval of the minutes of the previous meeting as published in *Badger State Smoke Signals*. A motion was made and seconded to approved the minutes as published. Motion carried.

The Chairman called for the WNA Treasurer's report. WNA Treasurer Fred Becker, W9KKM, reported that there is \$111.65 in the treasury and will submit a written report which will be an addendum to the minutes. Fred also reported that

BSSS subscriptions have raised to \$8.40 per year. As a result, WNA Booster dues have been raised to \$12.40 per year.

A motion was made and seconded to approve the treasurer's report. Motion carried.

Chairman Wayne Schanke announced that the WNA September meeting would be held on August 20, 1995 this year. The meeting will be in conjunction with the Badger Weather Net picnic in Shawano. The picnic and meeting will be held at the St. James Church Retreat on the north side of Shawano lake. Directions were included with the minutes of the March WNA meeting. For further information contact WB9YPY or W9AYK.

ARRL, WNA OFFICIALS and N/M REPORTS

SECTION MANAGER (SM) -- SM Rich Regent, K9GDF, was not present.

ASSISTANT SECTION MANAGER (ASM) -- ASM Roy Peterson, K9FHI, reported that the state is doing well. Roy also reported that the D9RN has changed frequencies on the early session from 3985 to 7282 KHZ. Roy also stated that if any clubs want ARRL affiliation, to let him know.

SECTION TRAFFIC MANAGER (STM) -- STM Art Evans, KA9KLZ, reported that, with the exception of the Wisconsin Novice Net (WNN), all of the nets are doing great. Average checkins per net is 17.4 and average traffic passed is 11.7. Thanks to the BWN for bringing up the totals. Two WNA members made BPL (WB9YPY and W9AYK).

Due to lack of interest, the Wisconsin Novice Net is being placed on inactive status. Current WNN N/M, KA9FVX, has requested replacement and no one will accept the job. With the average QNI of under two, it seems that there is no interest in a training level net. Perhaps in the future we can generate some interest and re-establish the net.

EMERGENCY COORDINATOR (SEC) -- SEC John Leekley, V... reported that he is glad to see one of the WNA members and is acquainted.

He also reported that we are going to do a better job of weather reporting in the future. With the new doppler the weather bureau can determine a lot of the information that we traditionally been reporting. Lee, N9BDL, commented that since the information hams are in real time, many non-hams rely on

WNA FINANCIAL REPORT, JUNE 11, 1995

DATE	PAYEE	CREDITS	DEBITS (from w9ayk)
SEP 16 1994	BSSS(K9GU)	6.40	BAL OCT 1 1994 134.26
OCT 1 1994			W9YCV BOOSTER DUES 4.00
OCT 23 1994	KA9KLZ (supplies etc)	12.44	
OCT 23 1994	STATE OF WI (corp dues)	10.00	
NOV 3, 1994			W9NGP BOOSTER & BSSS9.50
NOV 3 1994	BSSS(W9NGP)	6.40	
JAN 13 1995	KA9KLZ (supplies etc)	12.63	
MAR 1 1995			WB9YPY BOOSTER DUES 20.00
MAR 4 1995			W9NGP BOOSTER & BSSS 9.50
NOV 3 1994	BSSS(W9NGP)	6.40	
JAN 13 1995	KA9KLZ (supplies etc)	12.63	
MAR 1 1995			WB9YPY BOOSTER DUES 20.00
MAR 4 1995			W9UW BSSS & 1.60 WNA 10.00
MAR 8 1995			WD9FRI BSSS & WNA 15.00
MAR 8 1995	BSSS W9UW & WD9FRI	16.80	
MAR 12 1995			W9AYK BSSS & DUES 12.40
MAR 12 1995			W9KKM WNA DUES 4.00
MAR 14 1995			NS9Q BSSS & DUES 12.40
MAR 14 1995			WC9O WNA DUES 4.00
MAR 14 1995	BSSS W9AYK NS9Q	16.80	
MAY 02 1995	COOLEY PRINTERS (6 WNA MANUALS)	20.13	
MAY 08 1995	ART EVANS (POS. ENV. COPIES)	12.31	
JUN 11, 1995	CASH ON HAND	111.65	
TOTALS		255.56	225.56

RESPECTFULLY SUBMITTED BY FRED W BECKER, W9KKM, TREAS WNA

scanners for our reports on severe weather.

John also commented that the new ARES packet nodes are great for reporting severe weather.

ASSISTANT SECTION EMERGENCY COORDINATOR (ASEC) -- ASEC Sherm Carr, W9NGT, reported that the doppler radar is operational at the Sullivan Weather Bureau now and should be operational at La Crosse this fall. Sherm also said that the weather service does not want rain or lightning on severe weather reports. Sherm reported that the personnel at Sullivan are still learning how to use the doppler radar. Sherm also reported that the Weather Service will put the storm tracks on Amateur Radio.

WISCONSIN BULLETIN MANAGER (WBM) -- WBM Carl Plotz, WB9JSW, said he would like to have some station to read bulletins on the ARES and RACES two meter nets. Carl reported that the HF nets were covered good. Carl said

that any station wanting to become an OBS (Official Bulletin Station) should contact him.

WNA CHAIRMAN -- WNA Chairman Wayne Schanke, KE9VU, reports that the WNA is doing well, but could use more WNA Booster members.

NET MANAGER REPORTS

BADGER WEATHER NET (BWN) -- BWN N/M Jim Merrill, W9AYK, reported that Jim Caldwell, WB9YPY, is retiring from his position as liaison to the weather service. A big tip of the hat to Jim for his long years of service. Jim also reported that, starting soon, the liaisons will be sending the weather reports to the weather service via computer. Jim reported that the net is handling between 65 and 83 messages daily and most of them are weather reports.

Please turn the page



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Bob Gedemer, KA9JAC

609 Wilson Street, Neenah, WI 54956

WAPR meeting minutes

The annual meeting of WAPR was held on June 11, 1995 in conjunction with the Stevens Point hamfest. It was called to order at 10:00 AM by chairman W9LZQ. N9BQM was appointed acting secretary.

Motion to waive reading of minutes of previous meeting W9LZQ- KA9JAC passed unanimously.

Motion to waive reading of treasurer's report W9IHW-? passed unanimously.

Committee Reports:

Steve, KE9LZ, the frequency coordinator reported that his database is quite antiquated regarding the various nodes in the state. He is requesting updates from all nodeops and BBS sysops of what they have running. This is needed to assist in frequency coordination, to inform ARRL of our status and to aid in preparing a map of the system which has not been updated recently. ARRL was not furnished with information for the current repeater directory because the information was so dated and incorrect.

A list of current nodes in the Eastern part of the state and their routings was shown to those present. Steve wants to see 9600 baud links installed in more parts of the network. He feels \$300/node is a realistic budget amount using PacComm TNCs and Mitrek radios. A link from the Green Bay area to Wittenberg on 9600 baud is now operating. Talks are underway with people in Wausau to extend 9600 to Wausau.

The deadline for ARRL submittal is near the end of the year. Steve asks that all information be submitted to him prior to the beginning of December.

19.2K and 38.4K baud links are envisioned in parts of the network by the end of this year. Steve will be spearheading this effort as he has the 9600 links that are now working.

A form to facilitate giving information on nodes/BBSs was sent out by Steve several months ago to all the BBSs in the state. Few sysops reported receiving this form. Steve will resend it via the network.

Publications committee:

N9BQM reported that the map has not been updated because no information was received until today on nodes from KE9LZ. Steve reports he has been sending them all along. It was left to conjecture why these reports never reached their destination. He will send them by mail in the future. A tentative publishing date for the next map revision will be February of 1996.

N9BQM asked to be relieved of the publications job with the exception of the node map. N9CFN agreed to assist KB9ALN in this task.

A discussion ensued of having a quarterly publication by WAPR. No action or motions resulted.

OLD BUSINESS

Motion to retain Badger State Smoke Signals as official publication of WAPR KA9JAC-KE9LZ. Passed unanimously.

Motion to charge \$15 for membership for those who have a previous subscription to BSSS and \$20 for those who wish a subscription as part of their dues W9IHW-N9NQM Passed by majority

Motion that new members may join between January 1 and June 30 for \$7.00 with no provisions for BSSS for those first months KA9JAC-N9CFN. Passed unanimously.

A discussion ensued about the WAPR business cards. W9LZQ had a first set printed at his expense. Motion was made to print 1000 more cards with changes as relevant to the new officers and procure a rubber stamp to be used with the cards so they can be current KA9JAC-K9AEG. Passed unanimously.

ELECTION OF OFFICERS

W9LZQ was nominated for Chairman N9BQM-?. Motion to close nominations and cast a unanimous ballot N9CFN-N9CLG passed unanimously.

N9BQM was nominated for Vice-Chairman KA9JAC-?. Motion to close nominations and cast a unanimous ballot KA9JAC-N9CFN passed unanimously.

N9UDL was nominated for Secretary N9CFN-?. Motion to close nominations and cast a unanimous ballot N9CFN-KA9JAC passed unanimously.

KA9JAC was nominated for Treasurer WD9ESU-?. Motion to close nominations and cast a unanimous ballot KA9ZZK-KA9KLZ passed unanimously. N9LLT had indicated he wished to be relieved of this position. Thanks for a job well done Ted.

The new address for membership renewals is now:

Bob Gedemer KA9JAC
609 Wilson Street
Neenah, WI 54956

Motion to retain the current Board of Directors of WD9ESU, N9CFN and WB9TYT was made by W9LZQ-N9CLG and passed unanimously.

W9LZQ indicated he wished the following to continue in their present positions: KE9LZ as frequency coordinator AA9AW Standards committee

Next meeting to be in Tomah in October. KA9ZZK is to coordinate a time and place.

Meeting adjourned at 11:55 AM KA9JAC-WD9ESU. Passed unanimously.

Submitted by:
N9BQM, acting secretary
June 11, 1995

Using the Wisconsin Network - Part 5 By Andy Nemec, KB9ALN

In Part 4 of our series, we discussed the most important of the network node commands, Routes, Nodes, and Info. We also talked about careful use of the network, and efficient use of distant BBS's.

In this installment, we will put this information to use. We will begin a journey through a network node path. We will discover some standardization that will help you navigate to a distant destination.

We have discussed the construction of a typical node stack and how they communicate. There are some general rules that you should keep in mind when navigating through the network. You already know that Local Area Networks (LANs) are linked together by Backbone Nodes. These backbone nodes are the traffic carriers, and may often carry traffic between several LAN nodes. We might use an analogy here to better understand this system. Think of this all as a highway system. The LAN nodes are on-ramps to a freeway, the Node Stack is an interchange, and the Backbone is the "freeway".

Sometimes it is useful to know the difference between a backbone node and a LAN node when you connect to one. For example, it is not logical to connect to a distant LAN node and tell it to connect to another, more distant LAN node. Using our analogy, you would not want to exit a freeway and get tied up in an interchange if you wish to make an efficient, rapid trip on a freeway. So, backbone nodes will be carrying your packets, and your connection to LAN nodes will only slow your communication. However, backbone nodes are generally designated as "hidden" nodes. If you connect to your LAN node and ask for a node list with the "N" command, you will see no backbone nodes listed. There are good reasons for this, but we will discuss them later.

If we don't see the backbone node listed with the "N" command, how do we get to see that it is there? We use the "Routes" command. The "R" command will show all nodes connected on the same stack, whether they are "Hidden" backbone nodes or not.

Backbone nodes almost always have a # in front of their alias. Like the LAN node alias, there is usually a clue to a backbone node's location in the alias. For example, the Green Bay UHF 9600 baud backbone node has an alias of #446GB. It tells you that it is a "Hidden" backbone node, it is UHF, and it is in Green Bay. That

is just a little cryptic, but the I command will tell you that this is a backbone node that links Green Bay, Algoma, and Appleton, Wisconsin.

Now, let's start a journey through the network from Green Bay to Milwaukee. We will assume that you know it is possible, and that you may know that what your destination node is, but are not quite sure. We may have to take a few off-ramps to get there, but once we find the way there, we will know better than to take these exits.

The first thing you may have done is to get the list of nodes with the "N" command. There is nothing listed that resembles an alias that would indicate a Milwaukee node. A little bit of reasoning will let you in on what would be the most likely path to take to get there, though. The

"N" command yields the following:

WIGRB:KE9LZ-5} Nodes:

IPALN:KB9ALN	IPGB:N9CFN
IPGRB:KE9LZ	IPNOK:N9NOK
IPPAY:N9PAY	MTWBBS:N9GHE
MTWDX:N9GHE-7	NEEBBS:KA9JAC
SHEBBS:N9R	WIALG:KE9LZ-8
WIAPL:KB9BYQ-5	WICRIV:KE9LK-7
WIDC:W9AIQ-1	WIGB:N9CFN-5
WIGLK:KB9WC-7	WIMTW:N9GHE-8
WINEE:KA9JAC-5	WISHEL:N9R-8
WISTB:W9AIQ-7	WIWITT:K9AEG-5

The first nodes to rule out are ones that begin with IP. These are TCP/IP stations, and are specialized nodes. Any node alias that contains "BBS" is ruled out, for obvious reasons. Now we think of geography and airport designators. We want to look for a node that is part way toward our destination. If you want to take it one step further, you could look in the callbook to find out for sure where a station is located.

There are a couple of possibilities, if you have a map in front of you. WIMTW looks like a possibility, that looks suspiciously like an airport designator for Manitowoc. WISHEL (and SHEBBS) seem to indicate Sheboygan. A quick check of the call-book will confirm these deductions. Let's start by connecting to WIMTW, as that is about 1/3 of the way to Milwaukee. Once connected, send the "R" command. This will return:

WIMTW:N9GHE-8} Routes:
>1 #446MT:N9GHE-9 255 19
>1 #WIRED:N9GHE-6 255 2
1 MTWDX:N9GHE-7 255 18

Well, now we can look at this and determine that there are 2 backbone nodes connected to this node stack. Notice the > symbol in front of #446MT. This indicates a "Route in Use". It also can point you in the right direction in your travels. Let's investigate the first one, #446MT, and send the "R" command. We then see this:

#446MT:N9GHE-9}Routes:
>1 WIMTW:N9GHE-8 255 20
>1 #WIRED:N9GHE-6 255 2
1 MTWDX:N9GHE-7 255 18
0 #446AG:KE9LZ-7 224 8
0 #446SH:N9R-9 224 18

Then we send "I" for Info and see this:

#446MT:N9GHE-9}Backbone Node 446.100 Manitowoc, WI [44.92.22.2] 9600 Baud Backbone to Sheboygan and Algoma

This is information that you need to know. This tells you what this node does, and where it goes. A helpful hint: Take notes, or turn on your printer while you journey so that you know where you have been. When we continue in part 6, we will use this information to explore the next stop on our journey, Sheboygan. Until then, 73...

Wisconsin Nets Association Ltd.

Continued from page 13

BADGER EMERGENCY NET (BEN) -- BEN N/M Wayne Schanke, KE9VU, reports that the net is doing good, averaging about 4 messages per session and about 20 checkins. Wayne said that he needs a alternate NCS for Tuesdays while Fred is playing golf.

WISCONSIN SIDEBAND NET (WSBN) -- WSBN N/M Gen Santowski, K9UTQ, reported that the net is doing about the same. The net is averaging 4 pieces of traffic and 20/25 checkins per session. Gene reports that Ray, K9ANV, is net control on Wednesday nights now.

WISCONSIN SLOW SPEED NET (WSSN) -- WSSN N/M Lee Andreas, N9BDL, reported that the net was about the same. Lee said that he had two of the net controls that were on the net when he took over as N/M 11 years ago. They are AG9G and KY9P. Lee said that the net controls on the WSSN are very good and that makes the net good.

WISCONSIN INTERSTATE NET/EARLY (WIN/E) -- WIN/E N/M Larry Guthu, WB9ICH, reported that checkins are averaging 5/6, and traffic is averaging about 3 pieces. Time of the net is running from 20/25 minutes. Larry said that the net could use more net control stations and more 9rn reps.

WISCONSIN INTERSTATE NET/LATE (WIN/L) -- WIN/L N/M Ed Rice, W9NGP, reported that WIN/L is still there and running. Ed reports that both checkins and traffic for the first quarter of the year are down compared to the first quarter of 1994. Checkins were down 25% and traffic down 34% but traffic passed was up 6%. Ed said that all NCS spots are full and 9rn reps were there almost all of the time.

NORTHWOODS TRAFFIC NET (NTWN) -- NTWN N/M Mary Berger, NS9Q, was not present. Lee, N9BDL, reported that the net was doing good.

OLD BUSINESS -- Art, KA9KLZ, reported that the WNA manual has been printed, and he passed copies around for inspection. Art said that printed copies are available for \$4 plus shipping (\$1.93) and copies on disk are available for the cost of postage. IBM and Commodore C-64 formats are available. If anyone wants a copy in Amiga format Art will make up one. Art said he would try to get the manual in MAC format in the future.

Continued in column 3

NEW BUSINESS -- Chairman Wayne, KE9VU, said that

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The June 15, 1995 meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order at 7:27 p.m. by club president Bob Sauvan, WT9Q.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WN9UQT gave the financial report.

OLD BUSINESS: Bob Sauvan welcomed Gerry Munson, KB9KUP who took and passed her tech plus exam June 3rd. She was one of the students in this spring's ham class. Bob reported eight people took the exam. Six either got a new license or upgraded. Two people came from Beaver Dam to take the exam. Bill Hommel, KA9QFJ reported on the club's participation in Circus Heritage days. Bill tracked the Hillsboro balloon launch and had a packet radio station for the exhibit.

NEW BUSINESS: Pete Sweeney, WDJIB, reported on his work on ARES with the Sauk County Emergency government. Equipment and money needs were discussed. Bill Klinkner asked club members to consider the club donating money or used equipment to help start-up the project. Bob Sauvan updated the club on the results of the WI-QSO party. The club placed seventh and he placed seventh as an individual and he received a certificate recognizing his efforts. Gerry Munson applied for membership in the club and was unanimously accepted. Steve Schwoegler, WB9RNL talked about the club's recent experience at giving examinations. He reported that the Baraboo Public Library was a very good place to give the examinations. The staff, he said, were cooperative and helpful. He was very pleased with the way it went and asked the club about future examinations. It was agreed to hold a couple of more examinations. It is hoped that they will be again scheduled at the Baraboo Public Library and the dates selected were tentatively October 7 and December 2,

1995. Asked what the team is called, Steve replied the "South Central VE Team" and after some discussion would continue to work through W5YI. Bill Klinkner reported that the \$52.00 earned from the sale of surplus equipment donated by Vodak TV/Radio shack, minus some hamfest expenses would be used to purchase food/beverages for the upcoming field day.

Buck night winner was Bill Klinkner, N9KXX, who graciously on his own donated his three bucks to the collection for Field Day food.

Meeting adjourned at 8:22 p.m.

The next meeting will be held Tuesday July 18, 1995 at 7:30 p.m., room 14 in the Baraboo Civic Center.

Sincerely, Raymond J. Matlosz, N9MLZ, Secretary

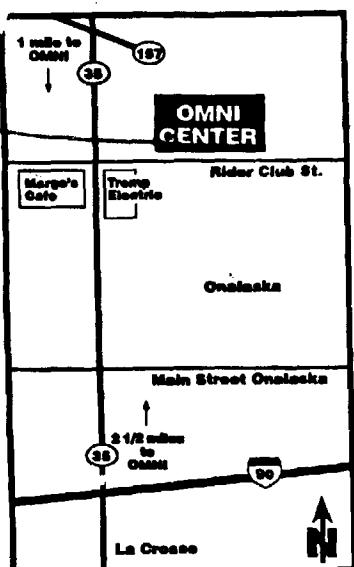
Members present were:

Peter Sweeney	WD9JIB	Reedsburg
Steve Schwoegler	WB9RNL	Wisconsin Dells
Ken Johnson	K9DZG	Maxomanie
Steve Schulze	N9UD0	Baraboo
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Bill Klinkner	N9KXX	Sauk City
Anne Klinkner	N9PQL	Sauk City
Raymond Matlosz	N9MLZ	Reedsburg
Bill Hommel	KA9QFJ	Baraboo
Domenic Bianco	KA9QFK	Reedsburg
David Spearing	KB9CSW	Portage
Robert Suavan	WT9Q	Sauk City
Len Wagner	N9XJG	Baraboo

the next WNA meeting will be on August 20, 1995 in Shawano. The meeting and picnic will be held in conjunction with the Badger Weather Net picnic. Everyone was sent information on the BWN picnic with the March WNA minutes. If anyone needs more information, contact Jim, WB9YPY, or Jim, W9AYK, for further details.

With no further business at hand, the Chairman called for a motion to adjourn. A motion was made and seconded (N9BDL/K9UTQ) to adjourn. Motion carried and the meeting was adjourned at 12:43 pm, June 11, 1995.

Respectfully Submitted:
Art Evans, KA9KLZ
WNA Secretary



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2410 E. Newberry Ct.
Appleton, WI 54915
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EXAM INFO:

Larry Siebers, KD9IA
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Kettle Moraine Radio Amateurs SWAPFEST

Sunday, October 15, 1995

Waukesha County Expo Center

Info: KMRA Swapfest S46 W32264 Highview Rd.
Waukesha, WI 53188-9276

Red Cedar Repeater Association, Inc.

AUCTION

February 27, 1996 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
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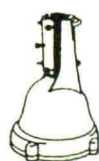
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